


STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING						FORM 3 AMENDED REPORT <input type="checkbox"/>				
<b>APPLICATION FOR PERMIT TO DRILL</b>						1. WELL NAME and NUMBER 13-5D-35 BTR				
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT ALTAMONT				
4. TYPE OF WELL Oil Well Coalbed Methane Well: NO						5. UNIT or COMMUNITIZATION AGREEMENT NAME				
6. NAME OF OPERATOR BILL BARRETT CORP						7. OPERATOR PHONE 303 312-8164				
8. ADDRESS OF OPERATOR 1099 18th Street Ste 2300, Denver, CO, 80202						9. OPERATOR E-MAIL BHilgers@billbarrettcorp.com				
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) 2OG0005608			11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>				
13. NAME OF SURFACE OWNER (if box 12 = 'fee') Bill Barrett Corporation						14. SURFACE OWNER PHONE (if box 12 = 'fee') 303-293-9100				
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee') 1099 18th Street, Suite 2300, Denver, CO 80202						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')				
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>				
20. LOCATION OF WELL	FOOTAGES		QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN			
LOCATION AT SURFACE	609 FSL 993 FWL		SWSW	5	3.0 S	5.0 W	U			
Top of Uppermost Producing Zone	808 FSL 811 FWL		SWSW	5	3.0 S	5.0 W	U			
At Total Depth	810 FSL 810 FWL		SWSW	5	3.0 S	5.0 W	U			
21. COUNTY DUCHESNE			22. DISTANCE TO NEAREST LEASE LINE (Feet) 810		23. NUMBER OF ACRES IN DRILLING UNIT 640					
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 3335		26. PROPOSED DEPTH MD: 11746 TVD: 11735					
27. ELEVATION - GROUND LEVEL 6159			28. BOND NUMBER LPM8874725		29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 43-180					
<b>Hole, Casing, and Cement Information</b>										
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
Cond	26	16	0 - 80	65.0	Unknown	8.8	No Used	0	0.0	0.0
Surf	12.25	9.625	0 - 4000	36.0	J-55 ST&C	8.8	Halliburton Light , Type Unknown	620	3.16	11.0
							Halliburton Premium , Type Unknown	210	1.36	14.8
Prod	8.75	9.625	0 - 11746	17.0	P-110 LT&C	9.6	Unknown	800	2.31	11.0
							Unknown	920	1.42	13.5
<b>ATTACHMENTS</b>										
<b>VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES</b>										
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER					<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN					
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)					<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER					
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)					<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP					
NAME Venessa Langmacher				TITLE Senior Permit Analyst			PHONE 303 312-8172			
SIGNATURE				DATE 07/25/2012			EMAIL vlangmacher@billbarrettcorp.com			
API NUMBER ASSIGNED 43013516000000				APPROVAL  Permit Manager						

## **BILL BARRETT CORPORATION**

### **DRILLING PLAN**

#### **13-5D-35 BTR**

SW SW, 609' FSL and 993' FWL, Section 5, T3S-R5W, USB&M (surface hole)

SW SW, 810' FSL and 810' FWL, Section 5, T3S-R5W, USB&M (bottom hole)

Duchesne County, Utah

#### **1 - 2. Estimated Tops of Geological Markers and Formations Expected to Contain Water, Oil and Gas and Other Minerals**

<b><u>Formation</u></b>	<b><u>Depth – MD</u></b>	<b><u>Depth - TVD</u></b>
Lower Green River*	7,387'	7,380'
Douglas Creek	8,205'	8,195'
Black Shale	8,836'	8,825'
Castle Peak	8,976'	8,965'
Uteland Butte	9,336'	9,325'
Wasatch*	9,726'	9,715'
TD	11,746'	11,735'

\*PROSPECTIVE PAY

The Wasatch and the Lower Green River are primary objectives for oil/gas.

Base of Useable Water = 2,985'

#### **3. BOP and Pressure Containment Data**

<b><u>Depth Intervals</u></b>	<b><u>BOP Equipment</u></b>
0 – 4,000'	No pressure control required
4,000' – TD	11" 5000# Ram Type BOP 11" 5000# Annular BOP
- Drilling spool to accommodate choke and kill lines;	
- Ancillary equipment and choke manifold rated at 5,000 psi. All BOP and BOPE tests will be in accordance with the requirements of onshore Order No. 2;	
- The BLM and the State of Utah Division of Oil, Gas and Mining will be notified 24 hours in advance of all BOP pressure tests.	
- BOP hand wheels may be underneath the sub-structure of the rig if the drilling rig used is set up To operate most efficiently in this manner.	

#### **4. Casing Program**

<b><u>Hole Size</u></b>	<b><u>SETTING DEPTH</u></b>		<b><u>Casing Size</u></b>	<b><u>Casing Weight</u></b>	<b><u>Casing Grade</u></b>	<b><u>Thread</u></b>	<b><u>Condition</u></b>
	<b><u>(FROM)</u></b>	<b><u>(TO)</u></b>					
26"	Surface	80'	16"	65#			
12 1/4"	Surface	4,000'	9 5/8"	36#	J or K 55	ST&C	New
8 3/4"	Surface	TD	5 1/2"	17#	P-110	LT&C	New

Bill Barrett Corporation  
Drilling Program  
13-5D-35 BTR  
Duchesne County, Utah

## 5. Cementing Program

16" Conductor Casing	Grout
9 5/8" Surface Casing	Lead: 620 sx Halliburton Light Premium with additives mixed at 11.0 ppg (yield = 3.16 ft <sup>3</sup> /sx) circulated to surface with 75% excess. TOC @ Surface Tail: 210 sx Halliburton Premium Plus cement with additives mixed at 14.8 ppg (yield = 1.36 ft <sup>3</sup> /sx), calculated hole volume with 75% excess. TOC @ 3,500'
5 1/2" Production Casing	Lead: 800 sx Tuned Light cement with additives mixed at 11.0 ppg (yield = 2.31 ft <sup>3</sup> /sx). TOC @ 3,500' Tail: 920 sx Halliburton Econocem cement with additives mixed at 13.5 ppg (yield = 1.42 ft <sup>3</sup> /sx). Top of cement to be determined by log and sample evaluation; estimated TOC @ 8,336'

## 6. Mud Program

<u>Interval</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss</u> <u>(API filtrate)</u>	<u>Remarks</u>
0' – 80'	8.3 – 8.8	26 – 36	NC	Freshwater Spud Mud Fluid System
80' – 4,000'	8.3 – 8.8	26 – 36	NC	Freshwater Spud Mud Fluid System
4,000' – TD	8.6 – 9.6	42-52	20 cc or less	DAP Polymer Fluid System
Note: Sufficient mud materials to maintain mud properties, control lost circulation and to contain "kicks" will be available at wellsite. BBC may require minor amounts of diesel to be added to its fluid system in order to reduce torque and drag.				

## 7. Testing, Logging and Core Programs

Cores	None anticipated;
Testing	None anticipated; drill stem tests may be run on shows of interest;
Sampling	30' to 50' samples; surface casing to TD. Preserve samples all show intervals;
Surveys	MWD as needed to land wellbore;
Logging	DIL-GR-SP, FDC-CNL-GR-CALIPER-Pe-Microlog, Sonic-GR (all TD to surface). FMI & Sonic Scanner to be run at geologist's discretion.

## 8. Anticipated Abnormal Pressures or Temperatures

No abnormal pressures or temperatures or other hazards are anticipated.

Maximum anticipated bottom hole pressure equals approximately 5858 psi\* and maximum anticipated surface pressure equals approximately 3276 psi\*\* (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

\*Max Mud Wt x 0.052 x TD = A (bottom hole pressure)

\*\*Maximum surface pressure = A – (0.22 x TD)

Bill Barrett Corporation  
Drilling Program  
13-5D-35 BTR  
Duchesne County, Utah

**9. Auxiliary Equipment**

- a) Upper kelly cock; lower Kelly cock will be installed while drilling
  - b) Inside BOP or stab-in valve (available on rig floor)
  - c) Safety valve(s) and subs to fit all string connections in use
- Mud monitoring will be visually observed

**10. Location and Type of Water Supply**

Water for the drilling and completion will be trucked from the Duchesne City Culinary Water Dock located in Sec. 1, T4S, R5W water right number 43-180.

**11. Drilling Schedule**

Location Construction: January 2013  
Spud: January 2013  
Duration: 15 days drilling time  
45 days completion time



# Bill Barrett Corporation

## LAKE CANYON & BLACK TAIL RIDGE CEMENT VOLUMES

**Well Name:** 13-5D-35 BTR

### Surface Hole Data:

Total Depth:	4,000'
Top of Cement:	0'
OD of Hole:	12.250"
OD of Casing:	9.625"

### Calculated Data:

Lead Volume:	1918.3	ft <sup>3</sup>
Lead Fill:	3,500'	
Tail Volume:	274.0	ft <sup>3</sup>
Tail Fill:	500'	

### Cement Data:

Lead Yield:	3.16	ft <sup>3</sup> /sk
% Excess:	75%	
Top of Lead:	0'	

### Calculated # of Sacks:

# SK's Lead:	620
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Tail Yield:	1.36	ft <sup>3</sup> /sk
% Excess:	75%	
Top of Tail:	3,500'	

# SK's Tail:	210
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### Production Hole Data:

Total Depth:	11,746'
Top of Cement:	3,500'
Top of Tail:	8,336'
OD of Hole:	8.750"
OD of Casing:	5.500"

### Calculated Data:

Lead Volume:	1832.3	ft <sup>3</sup>
Lead Fill:	4,836'	
Tail Volume:	1292.1	ft <sup>3</sup>
Tail Fill:	3,410'	

### Cement Data:

Lead Yield:	2.31	ft <sup>3</sup> /sk
Tail Yield:	1.42	ft <sup>3</sup> /sk
% Excess:	50%	

### Calculated # of Sacks:

# SK's Lead:	800
# SK's Tail:	920

<b>13-5D-35 BTR Proposed Cementing Program</b>
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<u>Job Recommendation</u>	<u>Surface Casing</u>
<b>Lead Cement - (3500' - 0')</b>	
Halliburton Light Premium	Fluid Weight: 11.0 lbm/gal
5.0 lbm/sk Silicalite Compacted	Slurry Yield: 3.16 ft <sup>3</sup> /sk
0.25 lbm/sk Kwik Seal	Total Mixing Fluid: 19.48 Gal/sk
0.125 lbm/sk Poly-E-Flake	Top of Fluid: 0'
2.0% Bentonite	Calculated Fill: 3,500'
	Volume: 341.63 bbl
	<b>Proposed Sacks: 620 sks</b>
<b>Tail Cement - (TD - 3500')</b>	
Premium Cement	Fluid Weight: 14.8 lbm/gal
2.0% Calcium Chloride	Slurry Yield: 1.36 ft <sup>3</sup> /sk
	Total Mixing Fluid: 6.37 Gal/sk
	Top of Fluid: 3,500'
	Calculated Fill: 500'
	Volume: 48.80 bbl
	<b>Proposed Sacks: 210 sks</b>

<u>Job Recommendation</u>	<u>Production Casing</u>
<b>Lead Cement - (8336' - 3500')</b>	
Tuned Light <sup>TM</sup> System	Fluid Weight: 11.0 lbm/gal
	Slurry Yield: 2.31 ft <sup>3</sup> /sk
	Total Mixing Fluid: 10.65 Gal/sk
	Top of Fluid: 3,500'
	Calculated Fill: 4,836'
	Volume: 326.32 bbl
	<b>Proposed Sacks: 800 sks</b>
<b>Tail Cement - (11746' - 8336')</b>	
Econocem <sup>TM</sup> System	Fluid Weight: 13.5 lbm/gal
0.125 lbm/sk Poly-E-Flake	Slurry Yield: 1.42 ft <sup>3</sup> /sk
1.0 lbm/sk Granulite TR 1/4	Total Mixing Fluid: 6.61 Gal/sk
	Top of Fluid: 8,336'
	Calculated Fill: 3,410'
	Volume: 230.12 bbl
	<b>Proposed Sacks: 920 sks</b>

T3S, R5W, U.S.B.&M.

BILL BARRETT CORPORATION

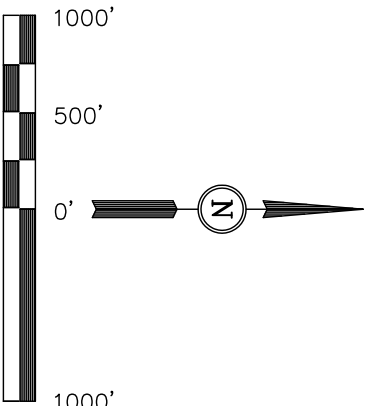
Well location, #13-5D-35 BTR, located as shown in the SW 1/4 SW 1/4 of Section 5, T3S, R5W, U.S.B.&M., Duchesne County, Utah.

BASIS OF ELEVATION

BENCH MARK (M67) LOCATED IN THE SW 1/4 OF SECTION 9, T5S, R4W, U.S.B.&M., TAKEN FROM THE DUCHESE SE, QUADRANGLE, UTAH, DUCHESE COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 6097 FEET.

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR  
KAY ROBERTS  
REGISTRATION NO. 161319  
STATE OF UTAH  
05-15-12

UINTAH ENGINEERING & LAND SURVEYING  
85 SOUTH 200 EAST - VERNAL, UTAH 84078  
(435) 789-1017

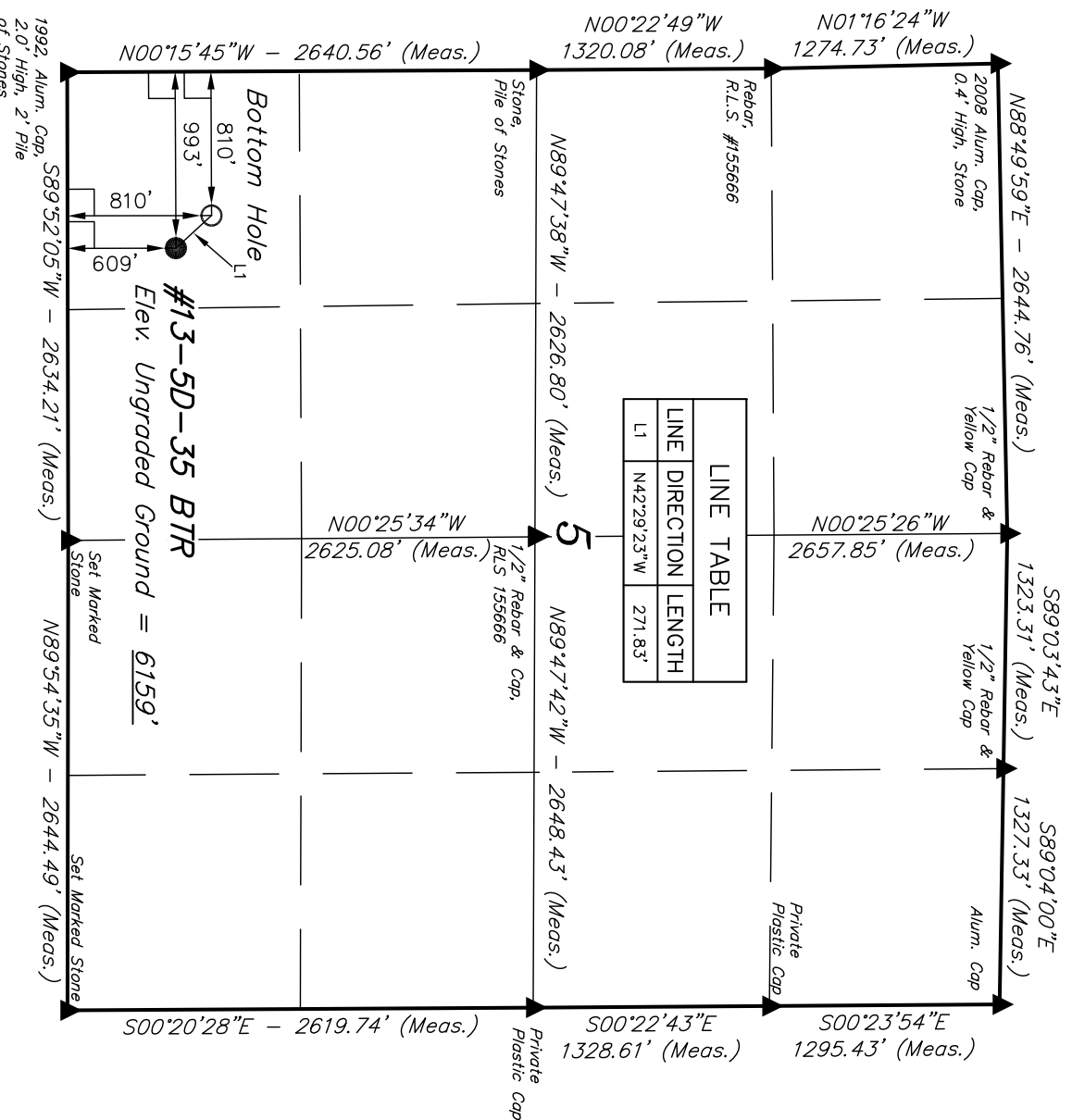
SCALE 1" = 1000'  
DATE SURVEYED: 02-15-12  
DATE DRAWN: 02-29-12

PARTY C.A. K.H. H.K.W.  
REFERENCES G.L.O. PLAT  
WEATHER COOL  
FILE BILL BARRETT CORPORATION

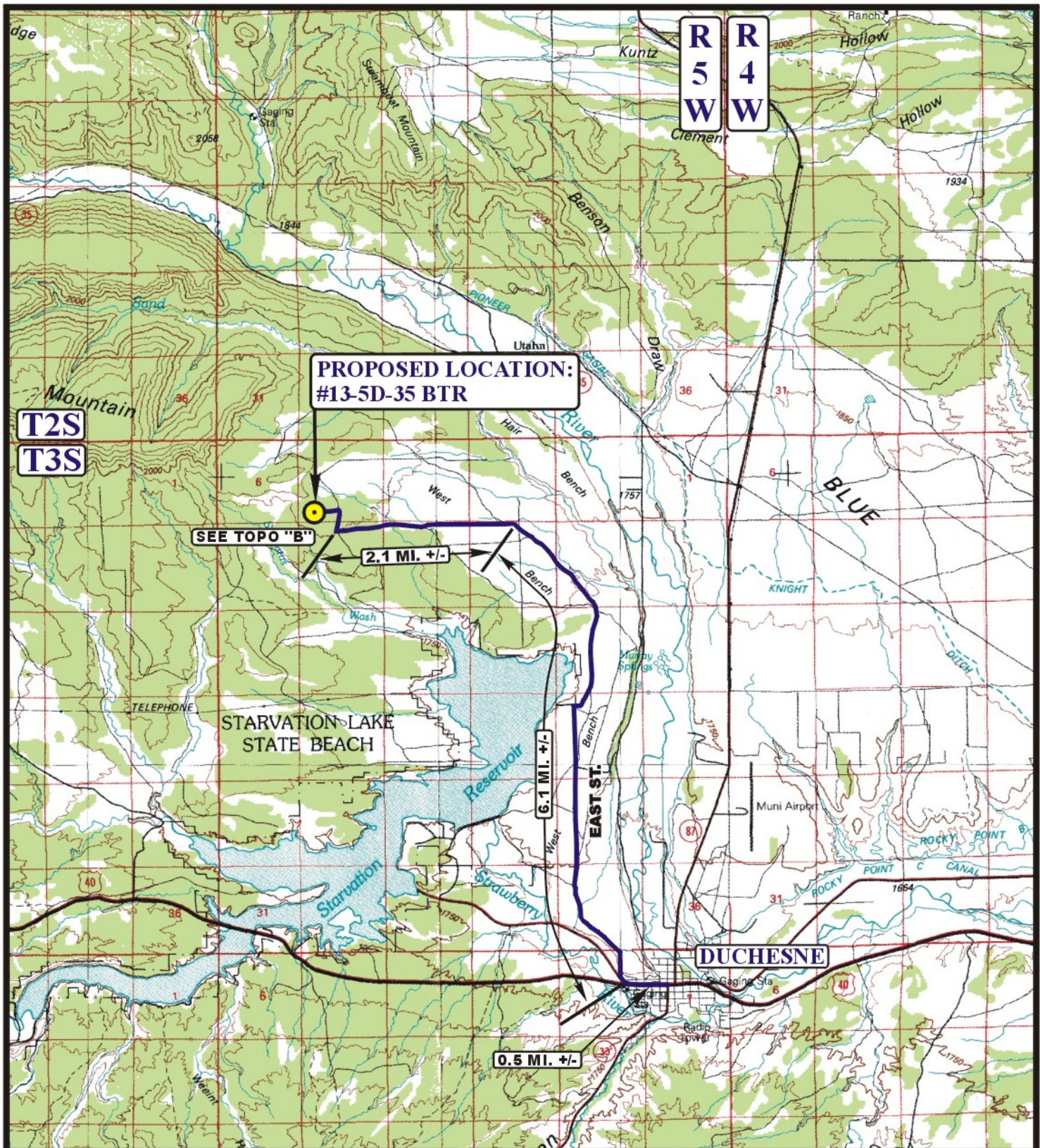
NAD 83 (TARGET BOTTOM HOLE)		NAD 83 (SURFACE LOCATION)	
LATITUDE = 40°14'38.74" (40.244094)		LATITUDE = 40°14'36.77" (40.243547)	
LONGITUDE = 110°28'50.99" (110.480831)		LONGITUDE = 110°28'48.62" (110.480172)	
NAD 27 (TARGET BOTTOM HOLE)		NAD 27 (SURFACE LOCATION)	
LATITUDE = 40°14'38.90" (40.244139)		LATITUDE = 40°14'36.93" (40.243592)	
LONGITUDE = 110°28'48.43" (110.480119)		LONGITUDE = 110°28'46.06" (110.479461)	

LEGEND:

- 90° SYMBOL
- PROPOSED WELL HEAD.
- SECTION CORNERS LOCATED.







**LEGEND:**

PROPOSED LOCATION



**BILL BARRETT CORPORATION**

**#13-5D-35 BTR**  
**SECTION 5, T3S, R5W, S.L.B.&M.**  
**609' FSL 993' FWL**



**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

**ACCESS ROAD**  
**M A P**

**02 23 12**  
 MONTH DAY YEAR

SCALE: 1:100,000 DRAWN BY: C.I. REVISED: 00-00-00

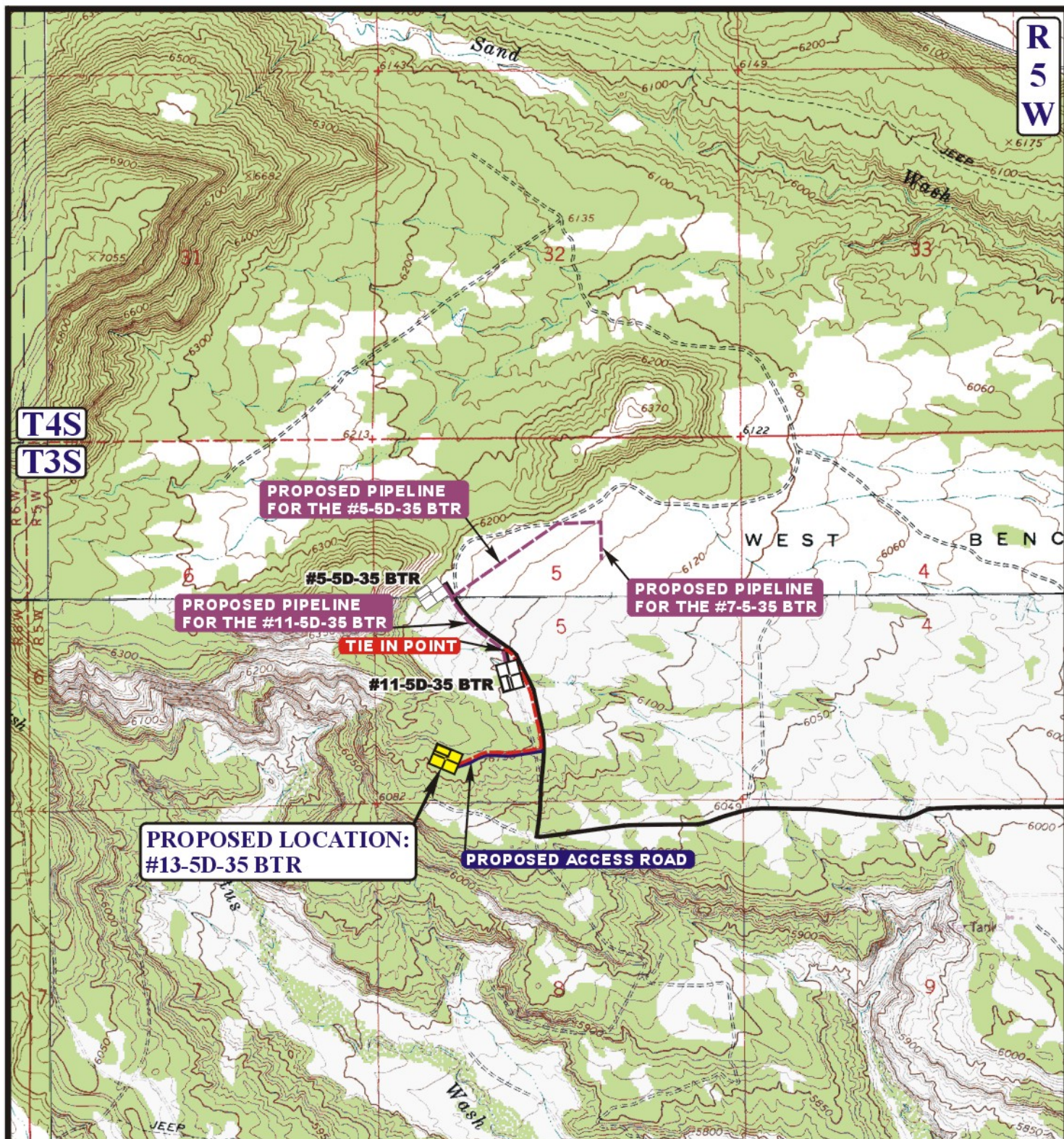




**B**  
**TOPO**

SCALE: 1" = 2000'	DRAWN BY: C.I.	REVISED: 00-00-00
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**APPROXIMATE TOTAL PIPELINE DISTANCE = 2,888' +/-**

**LEGEND:**

- PROPOSED ACCESS ROAD
- EXISTING PIPELINE
- - - - - PROPOSED PIPELINE
- - - - - PROPOSED PIPELINE (SERVICING OTHER WELLS)



**Utah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
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**BILL BARRETT CORPORATION**

**#13-5D-35 BTR**  
**SECTION 5, T3S, R5W, S.L.B.&M.**  
**609' FSL 993' FWL**

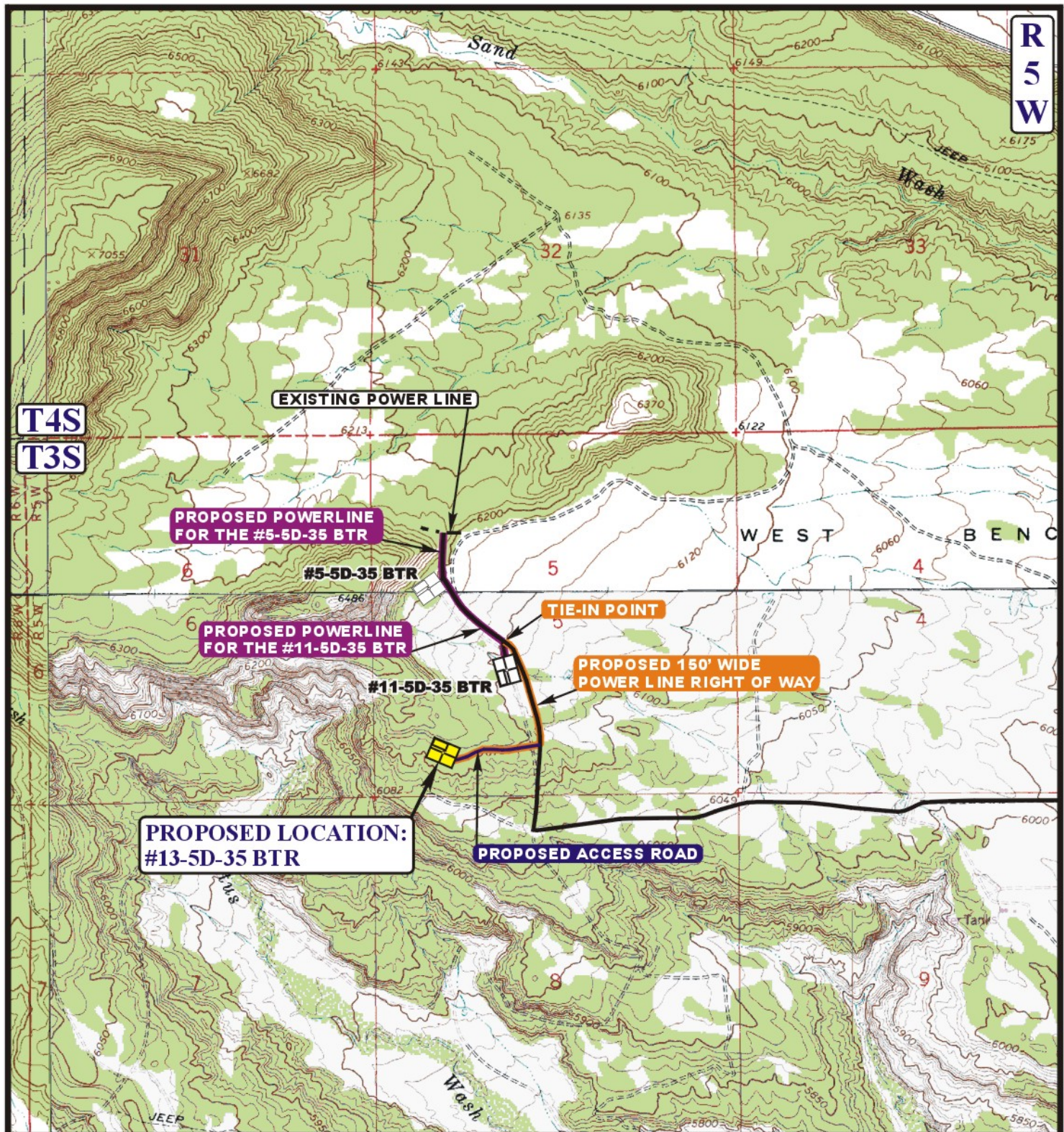
**TOPOGRAPHIC  
MAP**

**02 23 12**  
 MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: C.I. REVISED: 00-00-00







**APPROXIMATE TOTAL POWER LINE DISTANCE = 2,876' +/-**

**LEGEND:**

- PROPOSED ACCESS ROAD
- PROPOSED POWER LINE
- - - EXISTING POWER LINE
- PROPOSED POWERLINE (SERVICING OTHER WELLS)



**BILL BARRETT CORPORATION**

**#13-5D-35 BTR**  
**SECTION 5, T3S, R5W, S.L.B.&M.**  
**609' FSL 993' FWL**



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**TOPOGRAPHIC**  
**MAP**

**02 23 12**  
 MONTH DAY YEAR

**SCALE: 1" = 2000'** **DRAWN BY: C.I.** **REVISED: 00-00-00**

**D**  
**TOPO**





Bill Barrett Corporation

SITE DETAILS: 13-5D-35 BTR  
Blacktail RidgeSite Latitude: 40° 14' 36.931 N  
Site Longitude: 110° 28' 46.060 W**COMPANY DETAILS: BILL BARRETT CORP**

Calculation Method: Minimum Curvature  
 Error System: ISCWSA  
 Scan Method: Closest Approach 3D  
 Error Surface: Elliptical Conic  
 Warning Method: Error Ratio

Positional Uncertainty: 0.0  
 Convergence: 0.65  
 Local North: True

**WELL DETAILS: 13-5D-35 BTR**

Ground Level: 6160.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	697400.18	2284878.47	40° 14' 36.931 N	110° 28' 46.060 W	

**WELLBORE TARGET DETAILS (LAT/LONG)**

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
13-5D-35 3PT MKR	8605.0	199.3	-183.7	40° 14' 38.900 N	110° 28' 48.428 W	Rectangle (Sides: L200.0 W200.0)
13-5D-35 PBHL	11735.0	199.3	-183.7	40° 14' 38.900 N	110° 28' 48.428 W	Rectangle (Sides: L200.0 W200.0)

**SECTION DETAILS**

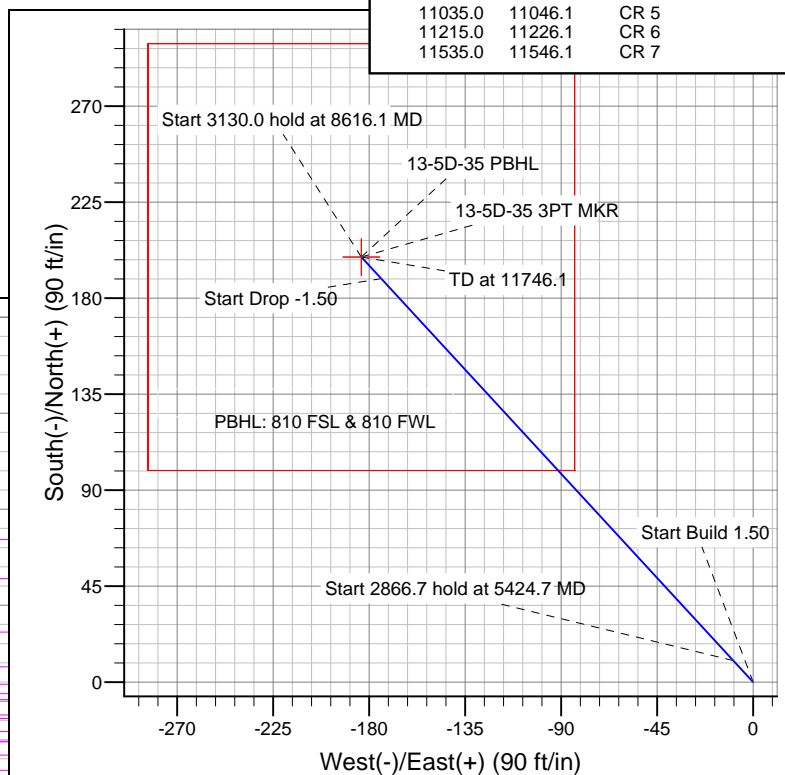
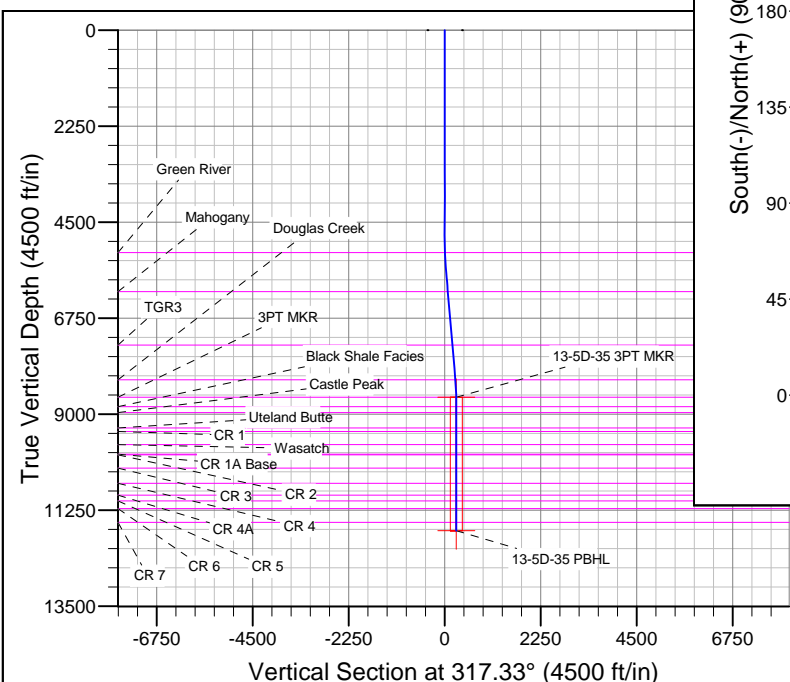
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	5100.0	0.00	0.00	5100.0	0.0	0.0	0.00	0.00	0.0	
3	5424.7	4.87	317.33	5424.3	10.1	-9.3	1.50	317.33	13.8	
4	8291.4	4.87	317.33	8280.7	189.1	-174.3	0.00	0.00	257.2	
5	8616.1	0.00	0.00	8605.0	199.3	-183.7	1.50	180.00	271.0	13-5D-35 3PT MKR
6	11746.1	0.00	0.00	11735.0	199.3	-183.7	0.00	0.00	271.0	13-5D-35 PBHL

**FORMATION TOP DETAILS**

TVDPath	MDPath	Formation
5215.0	5215.0	Green River
6130.0	6132.9	Mahogany
7380.0	7387.5	TGR3
8195.0	8205.4	Douglas Creek
8605.0	8616.1	3PT MKR
8825.0	8836.1	Black Shale Facies
8965.0	8976.1	Castle Peak
9325.0	9336.1	Uteland Butte
9405.0	9416.1	CR 1
9715.0	9726.1	Wasatch
9940.0	9951.1	CR 1A Base
9955.0	9966.1	CR 2
10265.0	10276.1	CR 3
10620.0	10631.1	CR 4
10900.0	10911.1	CR 4A
11035.0	11046.1	CR 5
11215.0	11226.1	CR 6
11535.0	11546.1	CR 7

**CASING DETAILS**

No casing data is available

Azimuths to True North  
Magnetic North: 11.37°

Magnetic Field  
 Strength: 52203.8snT  
 Dip Angle: 65.85°  
 Date: 7/23/2012  
 Model: IGRF2010



## Bill Barrett Corp

## Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well 13-5D-35 BTR
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	KB @ 6175.0ft (Original Well Elev)
<b>Project:</b>	DUCHESNE COUNTY, UT (NAD 27)	<b>MD Reference:</b>	KB @ 6175.0ft (Original Well Elev)
<b>Site:</b>	13-5D-35 BTR	<b>North Reference:</b>	True
<b>Well:</b>	13-5D-35 BTR	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	13-5D-35 BTR		
<b>Design:</b>	Design #1		

<b>Project</b>	DUCHESNE COUNTY, UT (NAD 27)		
<b>Map System:</b>	US State Plane 1927 (Exact solution)	<b>System Datum:</b>	Ground Level
<b>Geo Datum:</b>	NAD 1927 (NADCON CONUS)		
<b>Map Zone:</b>	Utah Central 4302		

Site	13-5D-35 BTR				
Site Position:		Northing:	697,400.19 ft	Latitude:	40° 14' 36.931 N
From:	Lat/Long	Easting:	2,284,878.47 ft	Longitude:	110° 28' 46.060 W
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.65 °

Well	13-5D-35 BTR					
Well Position	+N/-S	0.0 ft	Northing:	697,400.18 ft	Latitude:	40° 14' 36.931 N
	+E/-W	0.0 ft	Easting:	2,284,878.47 ft	Longitude:	110° 28' 46.060 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	6,160.0 ft

<b>Wellbore</b>	13-5D-35 BTR				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	7/23/2012	11.37	65.85	52,204

<b>Design</b>	Design #1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.0	0.0	0.0	317.33

<b>Plan Sections</b>										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,424.7	4.87	317.33	5,424.3	10.1	-9.3	1.50	1.50	0.00	317.33	
8,291.4	4.87	317.33	8,280.7	189.1	-174.3	0.00	0.00	0.00	0.00	
8,616.1	0.00	0.00	8,605.0	199.3	-183.7	1.50	-1.50	0.00	180.00	13-5D-35 3PT MKR
11,746.1	0.00	0.00	11,735.0	199.3	-183.7	0.00	0.00	0.00	0.00	13-5D-35 PBHL

## Bill Barrett Corp

## Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well 13-5D-35 BTR
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	KB @ 6175.0ft (Original Well Elev)
<b>Project:</b>	DUCHESNE COUNTY, UT (NAD 27)	<b>MD Reference:</b>	KB @ 6175.0ft (Original Well Elev)
<b>Site:</b>	13-5D-35 BTR	<b>North Reference:</b>	True
<b>Well:</b>	13-5D-35 BTR	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	13-5D-35 BTR		
<b>Design:</b>	Design #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	1.50	317.33	5,200.0	1.0	-0.9	1.3	1.50	1.50	0.00
5,215.0	1.73	317.33	5,215.0	1.3	-1.2	1.7	1.50	1.50	0.00

## Bill Barrett Corp

## Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well 13-5D-35 BTR
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	KB @ 6175.0ft (Original Well Elev)
<b>Project:</b>	DUCHESNE COUNTY, UT (NAD 27)	<b>MD Reference:</b>	KB @ 6175.0ft (Original Well Elev)
<b>Site:</b>	13-5D-35 BTR	<b>North Reference:</b>	True
<b>Well:</b>	13-5D-35 BTR	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	13-5D-35 BTR		
<b>Design:</b>	Design #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
<b>Green River</b>									
5,300.0	3.00	317.33	5,299.9	3.8	-3.5	5.2	1.50	1.50	0.00
5,400.0	4.50	317.33	5,399.7	8.7	-8.0	11.8	1.50	1.50	0.00
5,424.7	4.87	317.33	5,424.3	10.1	-9.3	13.8	1.50	1.50	0.00
5,500.0	4.87	317.33	5,499.3	14.8	-13.7	20.2	0.00	0.00	0.00
5,600.0	4.87	317.33	5,599.0	21.1	-19.4	28.7	0.00	0.00	0.00
5,700.0	4.87	317.33	5,698.6	27.3	-25.2	37.2	0.00	0.00	0.00
5,800.0	4.87	317.33	5,798.3	33.6	-30.9	45.7	0.00	0.00	0.00
5,900.0	4.87	317.33	5,897.9	39.8	-36.7	54.2	0.00	0.00	0.00
6,000.0	4.87	317.33	5,997.5	46.1	-42.5	62.6	0.00	0.00	0.00
6,100.0	4.87	317.33	6,097.2	52.3	-48.2	71.1	0.00	0.00	0.00
6,132.9	4.87	317.33	6,130.0	54.4	-50.1	73.9	0.00	0.00	0.00
<b>Mahogany</b>									
6,200.0	4.87	317.33	6,196.8	58.5	-54.0	79.6	0.00	0.00	0.00
6,300.0	4.87	317.33	6,296.4	64.8	-59.7	88.1	0.00	0.00	0.00
6,400.0	4.87	317.33	6,396.1	71.0	-65.5	96.6	0.00	0.00	0.00
6,500.0	4.87	317.33	6,495.7	77.3	-71.2	105.1	0.00	0.00	0.00
6,600.0	4.87	317.33	6,595.4	83.5	-77.0	113.6	0.00	0.00	0.00
6,700.0	4.87	317.33	6,695.0	89.8	-82.7	122.1	0.00	0.00	0.00
6,800.0	4.87	317.33	6,794.6	96.0	-88.5	130.6	0.00	0.00	0.00
6,900.0	4.87	317.33	6,894.3	102.2	-94.3	139.1	0.00	0.00	0.00
7,000.0	4.87	317.33	6,993.9	108.5	-100.0	147.6	0.00	0.00	0.00
7,100.0	4.87	317.33	7,093.6	114.7	-105.8	156.0	0.00	0.00	0.00
7,200.0	4.87	317.33	7,193.2	121.0	-111.5	164.5	0.00	0.00	0.00
7,300.0	4.87	317.33	7,292.8	127.2	-117.3	173.0	0.00	0.00	0.00
7,387.5	4.87	317.33	7,380.0	132.7	-122.3	180.5	0.00	0.00	0.00
<b>TGR3</b>									
7,400.0	4.87	317.33	7,392.5	133.5	-123.0	181.5	0.00	0.00	0.00
7,500.0	4.87	317.33	7,492.1	139.7	-128.8	190.0	0.00	0.00	0.00
7,600.0	4.87	317.33	7,591.8	146.0	-134.5	198.5	0.00	0.00	0.00
7,700.0	4.87	317.33	7,691.4	152.2	-140.3	207.0	0.00	0.00	0.00
7,800.0	4.87	317.33	7,791.0	158.4	-146.0	215.5	0.00	0.00	0.00
7,900.0	4.87	317.33	7,890.7	164.7	-151.8	224.0	0.00	0.00	0.00
8,000.0	4.87	317.33	7,990.3	170.9	-157.6	232.5	0.00	0.00	0.00
8,100.0	4.87	317.33	8,089.9	177.2	-163.3	241.0	0.00	0.00	0.00
8,200.0	4.87	317.33	8,189.6	183.4	-169.1	249.4	0.00	0.00	0.00
8,205.4	4.87	317.33	8,195.0	183.7	-169.4	249.9	0.00	0.00	0.00
<b>Douglas Creek</b>									
8,291.4	4.87	317.33	8,280.7	189.1	-174.3	257.2	0.00	0.00	0.00
8,300.0	4.74	317.33	8,289.2	189.6	-174.8	257.9	1.50	-1.50	0.00
8,400.0	3.24	317.33	8,389.0	194.8	-179.5	264.9	1.50	-1.50	0.00
8,500.0	1.74	317.33	8,488.9	198.0	-182.5	269.2	1.50	-1.50	0.00
8,600.0	0.24	317.33	8,588.9	199.2	-183.7	271.0	1.50	-1.50	0.00
8,616.1	0.00	0.00	8,605.0	199.3	-183.7	271.0	1.50	-1.50	264.46
<b>3PT MKR - 13-5D-35 3PT MKR</b>									
8,700.0	0.00	0.00	8,688.9	199.3	-183.7	271.0	0.00	0.00	0.00
8,800.0	0.00	0.00	8,788.9	199.3	-183.7	271.0	0.00	0.00	0.00
8,836.1	0.00	0.00	8,825.0	199.3	-183.7	271.0	0.00	0.00	0.00
<b>Black Shale Facies</b>									
8,900.0	0.00	0.00	8,888.9	199.3	-183.7	271.0	0.00	0.00	0.00
8,976.1	0.00	0.00	8,965.0	199.3	-183.7	271.0	0.00	0.00	0.00
<b>Castle Peak</b>									
9,000.0	0.00	0.00	8,988.9	199.3	-183.7	271.0	0.00	0.00	0.00

## Bill Barrett Corp

## Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well 13-5D-35 BTR
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	KB @ 6175.0ft (Original Well Elev)
<b>Project:</b>	DUCHESNE COUNTY, UT (NAD 27)	<b>MD Reference:</b>	KB @ 6175.0ft (Original Well Elev)
<b>Site:</b>	13-5D-35 BTR	<b>North Reference:</b>	True
<b>Well:</b>	13-5D-35 BTR	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	13-5D-35 BTR		
<b>Design:</b>	Design #1		

## Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
9,100.0	0.00	0.00	9,088.9	199.3	-183.7	271.0	0.00	0.00	0.00
9,200.0	0.00	0.00	9,188.9	199.3	-183.7	271.0	0.00	0.00	0.00
9,300.0	0.00	0.00	9,288.9	199.3	-183.7	271.0	0.00	0.00	0.00
9,336.1	0.00	0.00	9,325.0	199.3	-183.7	271.0	0.00	0.00	0.00
<b>Uteland Butte</b>									
9,400.0	0.00	0.00	9,388.9	199.3	-183.7	271.0	0.00	0.00	0.00
9,416.1	0.00	0.00	9,405.0	199.3	-183.7	271.0	0.00	0.00	0.00
<b>CR 1</b>									
9,500.0	0.00	0.00	9,488.9	199.3	-183.7	271.0	0.00	0.00	0.00
9,600.0	0.00	0.00	9,588.9	199.3	-183.7	271.0	0.00	0.00	0.00
9,700.0	0.00	0.00	9,688.9	199.3	-183.7	271.0	0.00	0.00	0.00
9,726.1	0.00	0.00	9,715.0	199.3	-183.7	271.0	0.00	0.00	0.00
<b>Wasatch</b>									
9,800.0	0.00	0.00	9,788.9	199.3	-183.7	271.0	0.00	0.00	0.00
9,900.0	0.00	0.00	9,888.9	199.3	-183.7	271.0	0.00	0.00	0.00
9,951.1	0.00	0.00	9,940.0	199.3	-183.7	271.0	0.00	0.00	0.00
<b>CR 1A Base</b>									
9,966.1	0.00	0.00	9,955.0	199.3	-183.7	271.0	0.00	0.00	0.00
<b>CR 2</b>									
10,000.0	0.00	0.00	9,988.9	199.3	-183.7	271.0	0.00	0.00	0.00
10,100.0	0.00	0.00	10,088.9	199.3	-183.7	271.0	0.00	0.00	0.00
10,200.0	0.00	0.00	10,188.9	199.3	-183.7	271.0	0.00	0.00	0.00
10,276.1	0.00	0.00	10,265.0	199.3	-183.7	271.0	0.00	0.00	0.00
<b>CR 3</b>									
10,300.0	0.00	0.00	10,288.9	199.3	-183.7	271.0	0.00	0.00	0.00
10,400.0	0.00	0.00	10,388.9	199.3	-183.7	271.0	0.00	0.00	0.00
10,500.0	0.00	0.00	10,488.9	199.3	-183.7	271.0	0.00	0.00	0.00
10,600.0	0.00	0.00	10,588.9	199.3	-183.7	271.0	0.00	0.00	0.00
10,631.1	0.00	0.00	10,620.0	199.3	-183.7	271.0	0.00	0.00	0.00
<b>CR 4</b>									
10,700.0	0.00	0.00	10,688.9	199.3	-183.7	271.0	0.00	0.00	0.00
10,800.0	0.00	0.00	10,788.9	199.3	-183.7	271.0	0.00	0.00	0.00
10,900.0	0.00	0.00	10,888.9	199.3	-183.7	271.0	0.00	0.00	0.00
10,911.1	0.00	0.00	10,900.0	199.3	-183.7	271.0	0.00	0.00	0.00
<b>CR 4A</b>									
11,000.0	0.00	0.00	10,988.9	199.3	-183.7	271.0	0.00	0.00	0.00
11,046.1	0.00	0.00	11,035.0	199.3	-183.7	271.0	0.00	0.00	0.00
<b>CR 5</b>									
11,100.0	0.00	0.00	11,088.9	199.3	-183.7	271.0	0.00	0.00	0.00
11,200.0	0.00	0.00	11,188.9	199.3	-183.7	271.0	0.00	0.00	0.00
11,226.1	0.00	0.00	11,215.0	199.3	-183.7	271.0	0.00	0.00	0.00
<b>CR 6</b>									
11,300.0	0.00	0.00	11,288.9	199.3	-183.7	271.0	0.00	0.00	0.00
11,400.0	0.00	0.00	11,388.9	199.3	-183.7	271.0	0.00	0.00	0.00
11,500.0	0.00	0.00	11,488.9	199.3	-183.7	271.0	0.00	0.00	0.00
11,546.1	0.00	0.00	11,535.0	199.3	-183.7	271.0	0.00	0.00	0.00
<b>CR 7</b>									
11,600.0	0.00	0.00	11,588.9	199.3	-183.7	271.0	0.00	0.00	0.00
11,700.0	0.00	0.00	11,688.9	199.3	-183.7	271.0	0.00	0.00	0.00
11,746.1	0.00	0.00	11,735.0	199.3	-183.7	271.0	0.00	0.00	0.00
<b>13-5D-35 PBHL</b>									



## Bill Barrett Corp

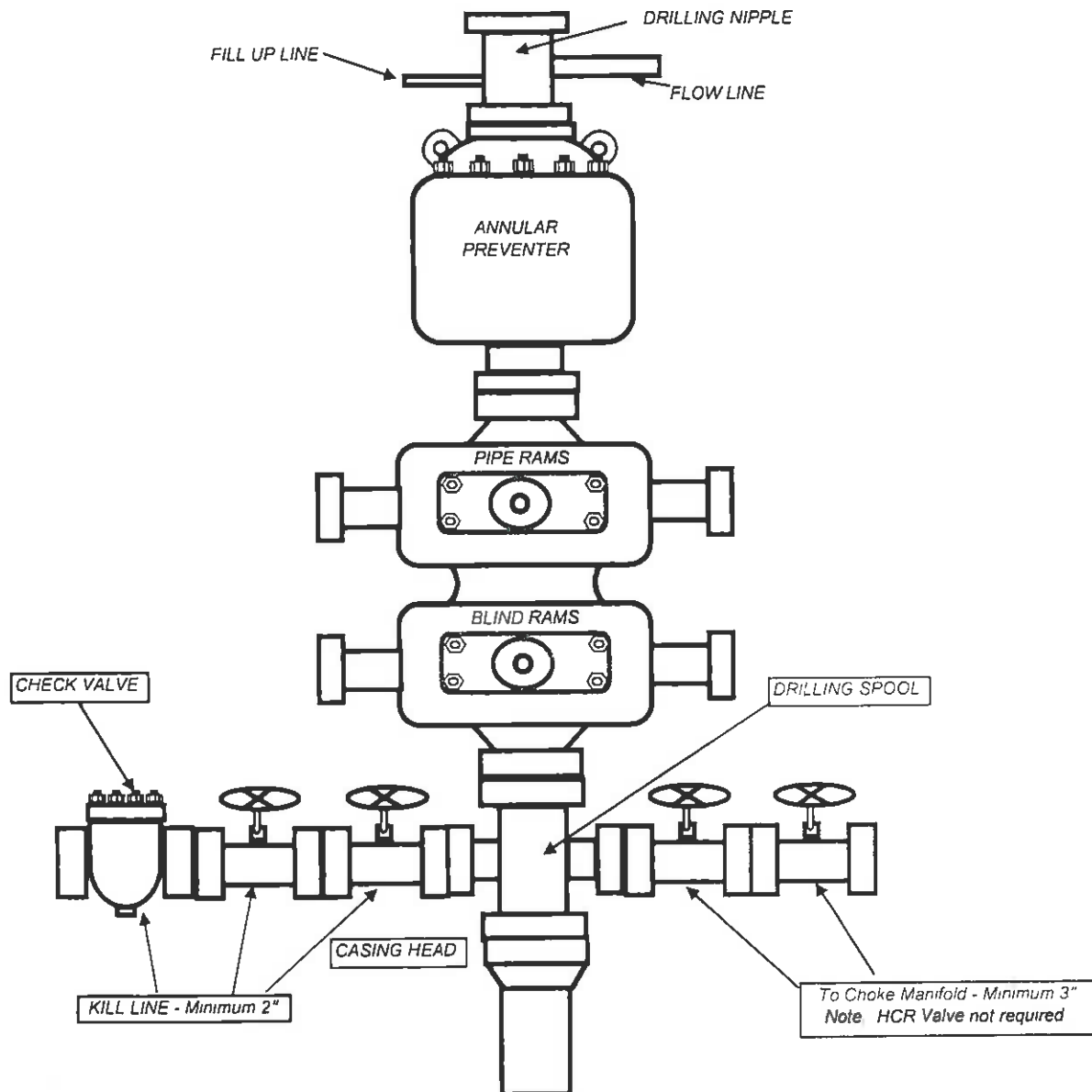
## Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well 13-5D-35 BTR
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	KB @ 6175.0ft (Original Well Elev)
<b>Project:</b>	DUCHESNE COUNTY, UT (NAD 27)	<b>MD Reference:</b>	KB @ 6175.0ft (Original Well Elev)
<b>Site:</b>	13-5D-35 BTR	<b>North Reference:</b>	True
<b>Well:</b>	13-5D-35 BTR	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	13-5D-35 BTR		
<b>Design:</b>	Design #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
5,215.0	5,215.0	Green River		0.00		
6,132.9	6,130.0	Mahogany		0.00		
7,387.5	7,380.0	TGR3		0.00		
8,205.4	8,195.0	Douglas Creek		0.00		
8,616.1	8,605.0	3PT MKR		0.00		
8,836.1	8,825.0	Black Shale Facies		0.00		
8,976.1	8,965.0	Castle Peak		0.00		
9,336.1	9,325.0	Uteland Butte		0.00		
9,416.1	9,405.0	CR 1		0.00		
9,726.1	9,715.0	Wasatch		0.00		
9,951.1	9,940.0	CR 1A Base		0.00		
9,966.1	9,955.0	CR 2		0.00		
10,276.1	10,265.0	CR 3		0.00		
10,631.1	10,620.0	CR 4		0.00		
10,911.1	10,900.0	CR 4A		0.00		
11,046.1	11,035.0	CR 5		0.00		
11,226.1	11,215.0	CR 6		0.00		
11,546.1	11,535.0	CR 7		0.00		

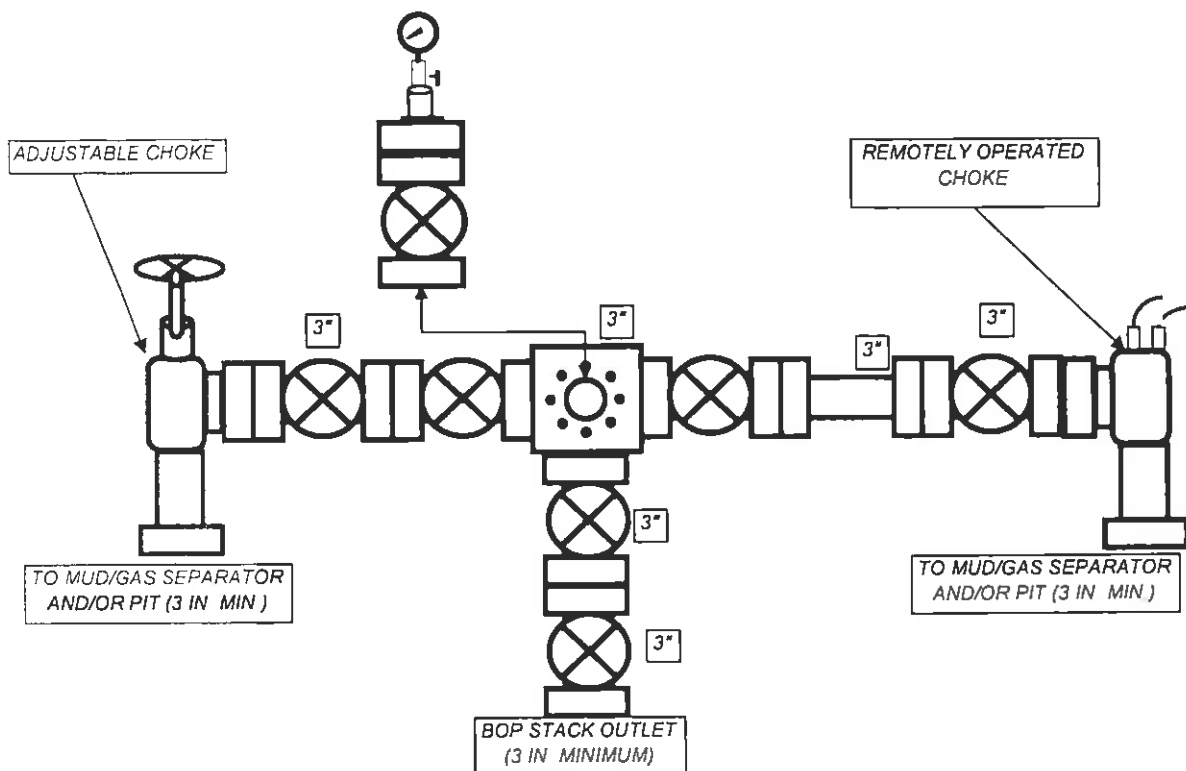
## BILL BARRETT CORPORATION

### TYPICAL 5,000 p.s.i. BLOWOUT PREVENTER



# BILL BARRETT CORPORATION

## TYPICAL 5,000 p.s.i. CHOKE MANIFOLD





July 25, 2012

Ms. Diana Mason – Petroleum Technician  
State of Utah Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
P. O. Box 145801  
Salt Lake City, Utah 84114-5801

Re: Directional Drilling R649-3-11  
**Blacktail Ridge Area #13-5D-35 BTR**  
Surface: 609' FSL & 993' FWL, SWSW, 5-T3S-R5W, USM  
Bottom Hole: 810' FSL & 810' FWL SWSW, 5-T3S-R5W, USM  
Duchesne County, Utah

Dear Ms. Mason,

Pursuant to the filing of Bill Barrett Corporation's ("BBC") Application for Permit to Drill the above referenced well, we hereby submit this letter in accordance with Oil & Gas Conservation Rules R649-2, R649-3, R649-10 and R649-11, pertaining to the Location and Siting of Wells.

- The proposed location is within our Blacktail Ridge Area.
- BBC is permitting this well as a directional well in order to minimize surface disturbance. By locating the well at the surface location and directionally drilling from this location, BBC will be able to utilize the existing road and pipelines in the area.
- The well will be drilled under an Exploration and Development Agreement between the Ute Indian Tribe and Ute Distribution Corporation. Ute Energy, LLC owns a right to participate in this well.
- BBC certifies that it is the working interest owner of all lands within 460 feet of the proposed well location, and together with Ute Energy, LLC, we own 100% of the working interest in these lands.

Based on the information provided, BBC requests that the permit be granted pursuant to R649-3-11. Should you have any questions or need further information, please contact me at 303-312-8544.

Sincerely,

David Watts  
Landman

1099 18<sup>TH</sup> STREET  
SUITE 2300  
DENVER, CO 80202  
P 303.293.9100  
F 303.291.0420

**RECEIVED:** July 25, 2012



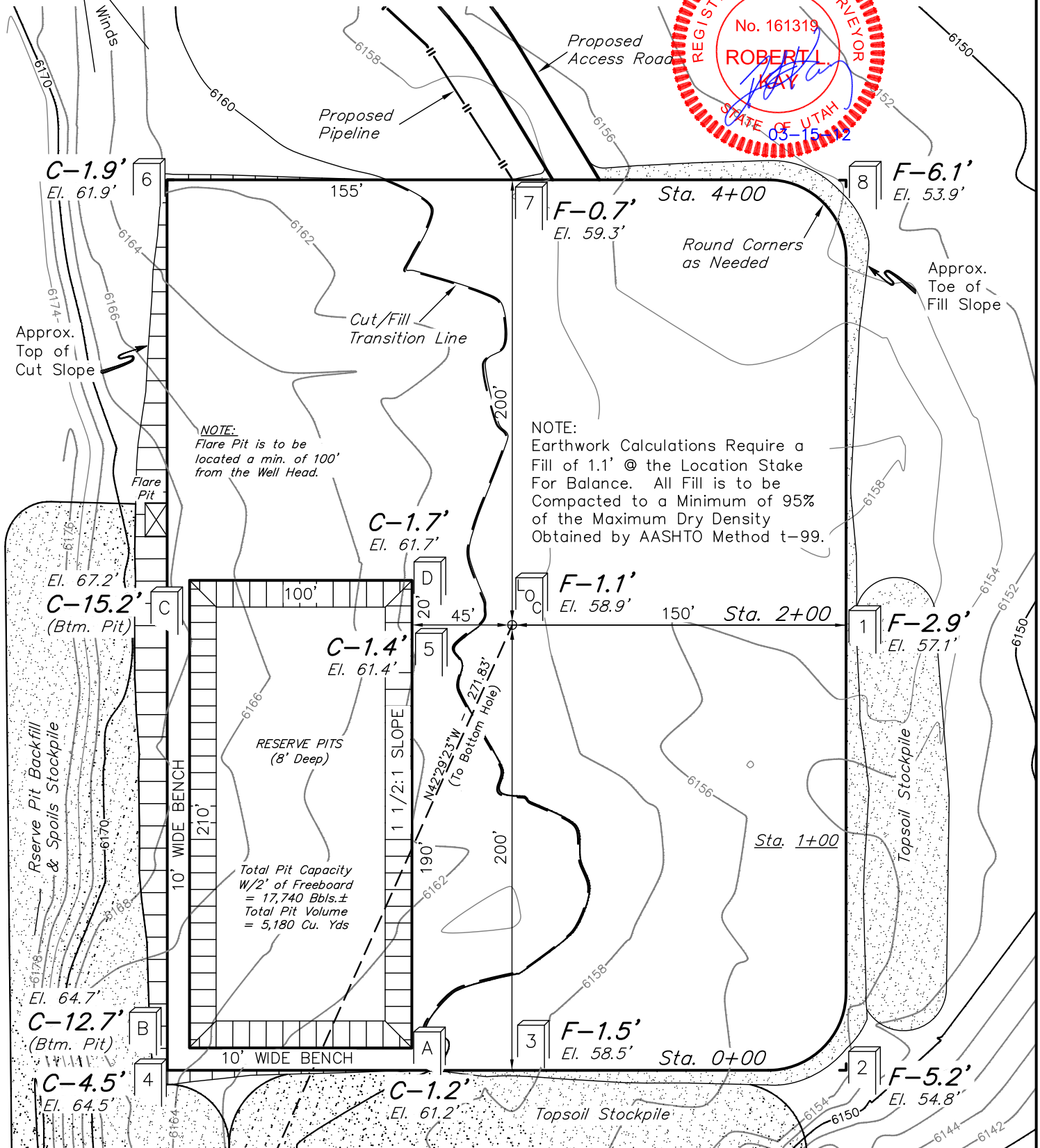
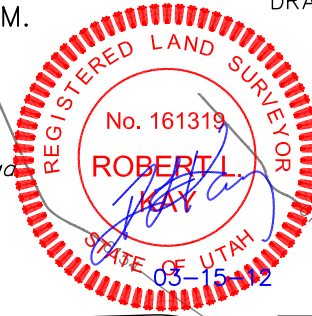
## LOCATION LAYOUT FOR

SECTION 5, T3S, R5W, S.L.B.&M.  
609' FSL 993' FWL

*FIGURE #1*

DATE: 03-01-12

DRAWN BY: H.K.W.



Elev. Ungraded Ground At Loc. Stake = 6158.9'  
FINISHED GRADE ELEV. AT LOC. STAKE = 6160.0'

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017

RECEIVED: July 25, 2012

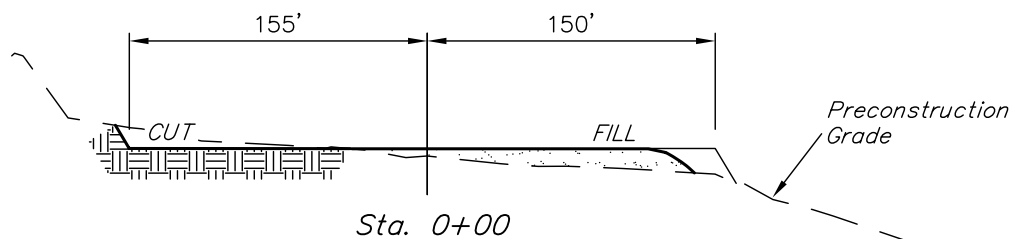
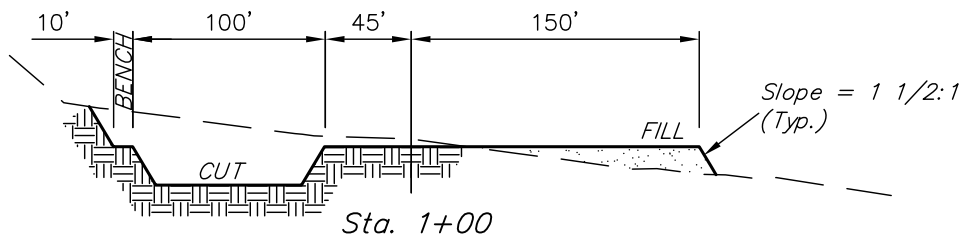
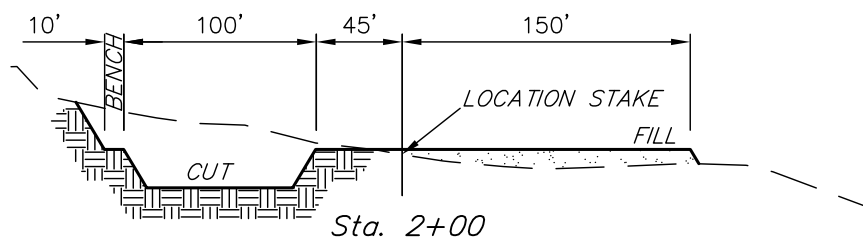
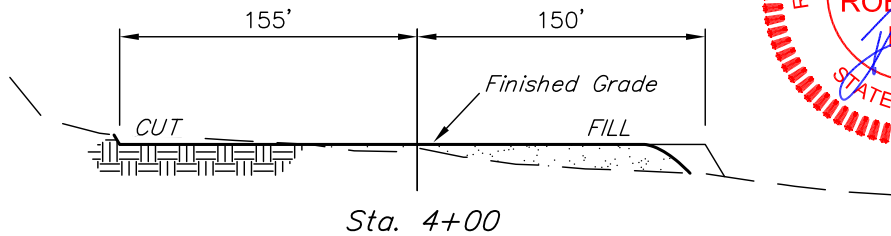
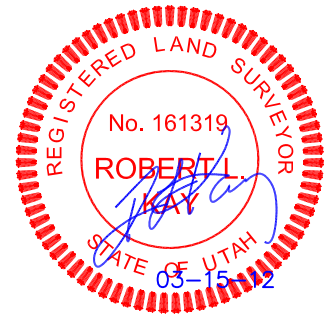
1" = 40'  
X-Section  
Scale  
1" = 100'  
DATE: 03-01-12  
DRAWN BY: H.K.W.

**BILL BARRETT CORPORATION****TYPICAL CROSS SECTIONS FOR**

#13-5D-35 BTR

SECTION 5, T3S, R5W, S.L.B.&amp;M.

609' FSL 993' FWL

**FIGURE #2****NOTE:**

Topsoil should not be Stripped Below Finished Grade on Substructure Area.

**APPROXIMATE ACREAGES**

WELL SITE DISTURBANCE = ± 4.006 ACRES  
ACCESS ROAD DISTURBANCE = ± 0.855 ACRES  
PIPELINE DISTURBANCE = ± 1.969 ACRES  
POWERLINE DISTURBANCE = ± 9.804 ACRES  
TOTAL = ± 16.634 ACRES

\* NOTE:  
FILL QUANTITY INCLUDES 5% FOR COMPACTION

**APPROXIMATE YARDAGES**

(6") Topsoil Stripping = 2,490 Cu. Yds.  
Remaining Location = 11,710 Cu. Yds.  
TOTAL CUT = 14,200 CU. YDS.  
FILL = 9,120 CU. YDS.

EXCESS MATERIAL = 5,080 Cu. Yds.  
Topsoil & Pit Backfill = 5,080 Cu. Yds.  
(1/2 Pit Vol.)  
EXCESS UNBALANCE = 0 Cu. Yds.  
(After Interim Rehabilitation)

**UINTAH ENGINEERING & LAND SURVEYING**  
85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017

RECEIVED: July 25, 2012

**BILL BARRETT CORPORATION**

## TYPICAL RIG LAYOUT FOR

#13-5D-35 BTR

SECTION 5, T3S, R5W, S.L.B.&amp;M.

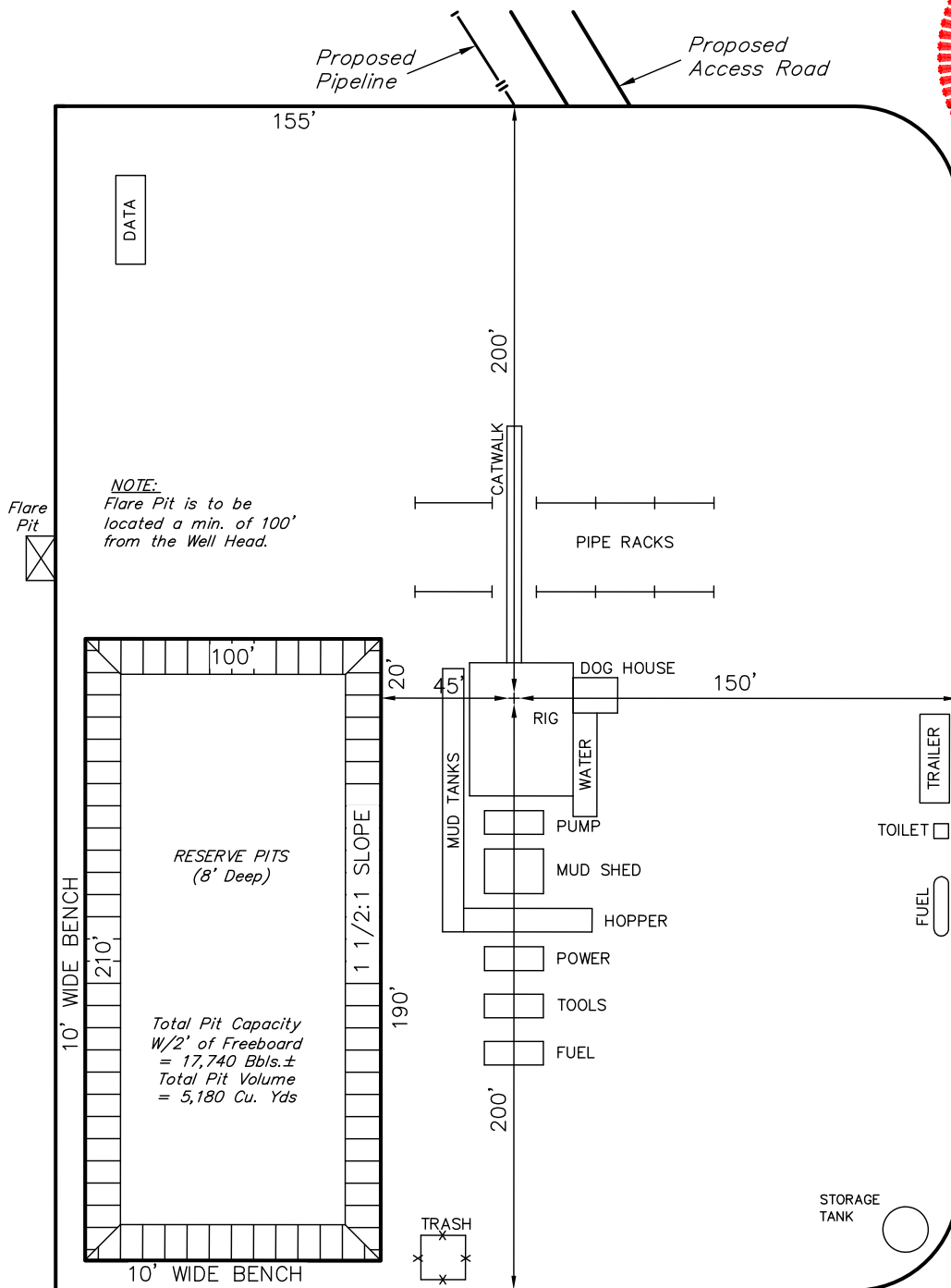
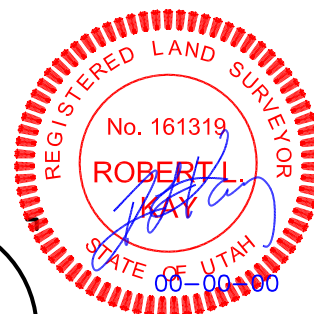
609' FSL 993' FWL

**FIGURE #3**

SCALE: 1" = 60'

DATE: 03-01-12

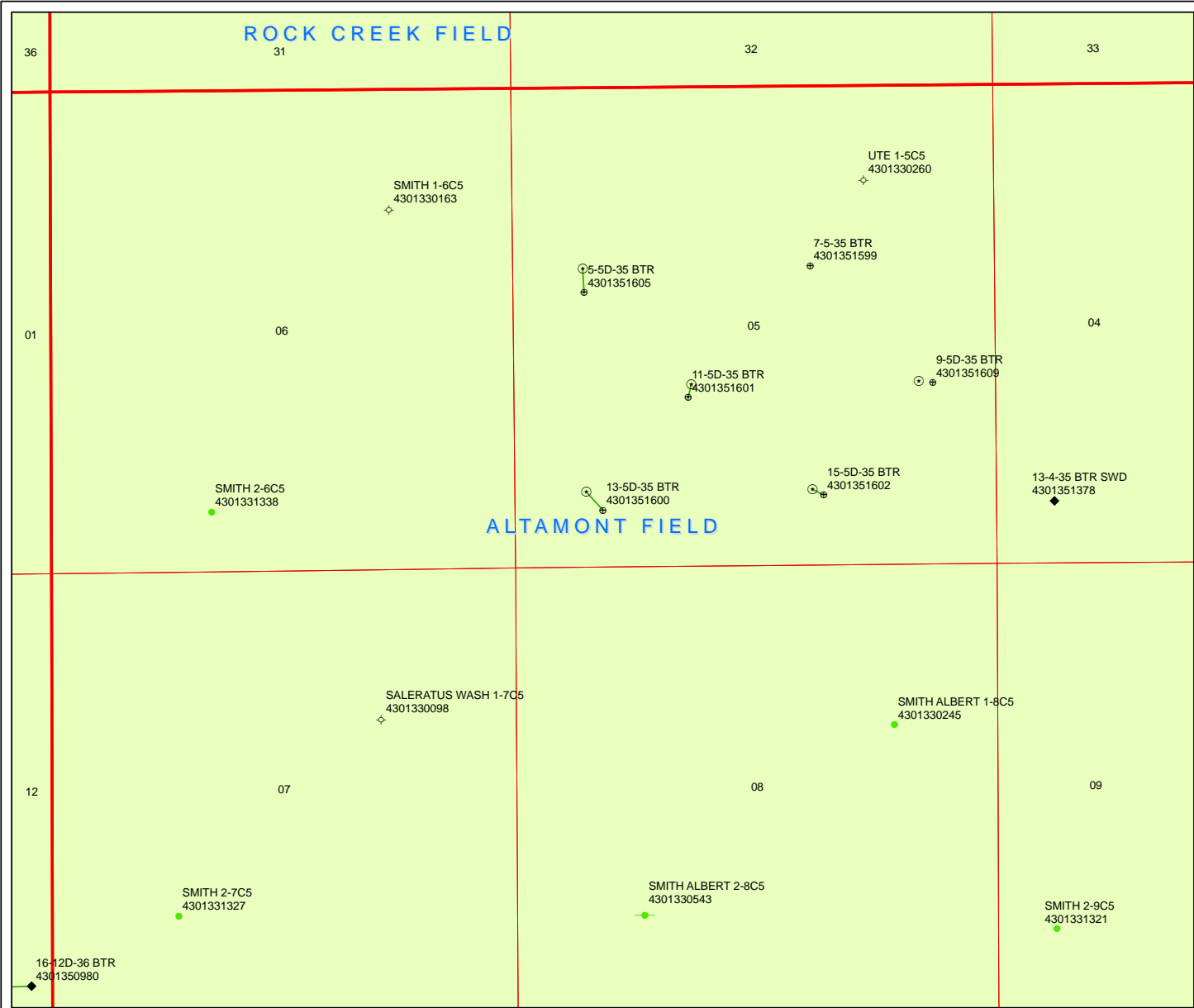
DRAWN BY: H.K.W.



UINTAH ENGINEERING &amp; LAND SURVEYING

85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017

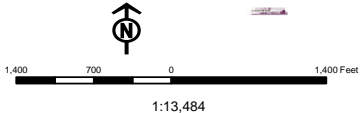
RECEIVED: July 25, 2012



**API Number: 4301351600**  
**Well Name: 13-5D-35 BTR**  
**Township T03.0S Range R05.0W Section 05**  
**Meridian: UBM**  
**Operator: BILL BARRETT CORP**

Map Prepared:  
Map Produced by Diana Mason

- |               |                                    |
|---------------|------------------------------------|
| <b>Units</b>  | <b>Wells Query</b>                 |
| <b>STATUS</b> | <b>Status</b>                      |
| ACTIVE        | APD - Approved Permit              |
| EXPLORATORY   | DRL - Spudded (Drilling Commenced) |
| GAS STORAGE   | GIW - Gas Injection                |
| NF PP OIL     | GS - Gas Storage                   |
| NF SECONDARY  | LOC - New Location                 |
| PI OIL        | OPS - Operation Suspended          |
| PP GAS        | PA - Plugged Abandoned             |
| PP GEOTHERM   | PGW - Producing Gas Well           |
| PP OIL        | POW - Producing Oil Well           |
| SECONDARY     | SGW - Shut-in Gas Well             |
| TERMINATED    | SOW - Shut-in Oil Well             |
| <b>Fields</b> | TA - Temp. Abandoned               |
| Unknown       | TW - Test Well                     |
| ABANDONED     | WDW - Water Disposal               |
| ACTIVE        | WW - Water Injection Well          |
| COMBINED      | WSW - Water Supply Well            |
| INACTIVE      | Bottom Hole Location - Oil/Gas/Dls |
| STORAGE       |                                    |
| TERMINATED    |                                    |





# **ON-SITE PREDRILL EVALUATION**

## **Utah Division of Oil, Gas and Mining**

**Operator** BILL BARRETT CORP  
**Well Name** 13-5D-35 BTR  
**API Number** 43013516000000 **APD No** 6484 **Field/Unit** ALTAMONT  
**Location: 1/4,1/4** SWSW **Sec 5 Tw** 3.0S **Rng** 5.0W 609 FSL 993 FWL  
**GPS Coord (UTM)** 544212 4454920 **Surface Owner** Bill Barrett Corporation

### **Participants**

Zack Garner (BBC), Don Hamilton (permit contractor), Brandon Bowthorpe and Trevor Anderson (surveyors), James Hereford (BLM), Amy Ackman (archeologist), Joe Via (t & e species)

### **Regional/Local Setting & Topography**

This proposed location lays approximately 8 miles north west of Duchesne, Utah and approximately 2 miles north west of Starvation Reservoir. The land in this area generally slopes south east toward Starvation Reservoir through a series of dry wash and small rugged canyons.

### **Surface Use Plan**

**Current Surface Use**  
Wildlfe Habitat

<b>New Road Miles</b>	<b>Well Pad</b>	<b>Src Const Material</b>	<b>Surface Formation</b>
0.24	<b>Width 305 Length 400</b>	Onsite	UNTA

**Ancillary Facilities** N

**Waste Management Plan Adequate?** Y

### **Environmental Parameters**

**Affected Floodplains and/or Wetlands** N

#### **Flora / Fauna**

Pinion-Juniper, crypto soil, small sage, mormon tea

#### **Soil Type and Characteristics**

Sandy soil with exposed rock.

**Erosion Issues** N

**Sedimentation Issues** N

**Site Stability Issues** N

**Drainage Diverson Required?** Y

**Berm Required?** N

**Erosion Sedimentation Control Required?** N

**Paleo Survey Run? Paleo Potential Observed? N Cultural Survey Run? Y Cultural Resources? N**

**Reserve Pit**

**Site-Specific Factors**

**Site Ranking**

**Distance to Groundwater (feet)**  
**Distance to Surface Water (feet)**  
**Dist. Nearest Municipal Well (ft)**  
**Distance to Other Wells (feet)**  
**Native Soil Type**  
**Fluid Type**  
**Drill Cuttings**  
**Annual Precipitation (inches)**  
**Affected Populations**  
**Presence Nearby Utility Conduits**

**Final Score**

**Sensitivity Level**

**Characteristics / Requirements**

The reserve pit as proposed is 210ft by 100ft by 8ft deep and is to placed in a cut stable location. Kary Eldredge of Bill Barrett Corporation stated that a minimum 16 mil liner and felt subliner will be used. This appears to be adequate for this location.

**Closed Loop Mud Required? N Liner Required? Y Liner Thickness 16 Pit Underlayment Required? Y**

**Other Observations / Comments**

Richard Powell  
**Evaluator**

8/21/2012  
**Date / Time**

# Application for Permit to Drill

## Statement of Basis

### Utah Division of Oil, Gas and Mining

<b>APD No</b>	<b>API WellNo</b>	<b>Status</b>	<b>Well Type</b>	<b>Surf Owner</b>	<b>CBM</b>
6484	43013516000000	LOCKED	OW	P	No
<b>Operator</b>	BILL BARRETT CORP		<b>Surface Owner-APD</b>	Bill Barrett Corporation	
<b>Well Name</b>	13-5D-35 BTR		<b>Unit</b>		
<b>Field</b>	ALTAMONT		<b>Type of Work</b>	DRILL	
<b>Location</b>	SWSW 5 3S 5W U 609 FSL 993 FWL GPS Coord (UTM) 544208E 4454915N				

#### Geologic Statement of Basis

The mineral rights for the proposed well are owned by the Ute Tribe. The BLM will be the agency responsible for evaluating and approving the drilling, casing and cement programs.

Brad Hill  
**APD Evaluator**

9/10/2012  
**Date / Time**

#### Surface Statement of Basis

This location is on fee surface with Indian minerals. The surface owner is Bill Barrett Corporation. Zack Garner acted as both the surface owner representative and the oil company representative. Mr. Garner stated that a minimum 16 mil liner and felt subliner will be used, and this appears to be adequate for the location. The reserve pit as proposed is 210ft by 100ft by 8ft deep and is to be placed in a cut stable location. Kary Eldredge of Bill Barrett Corporation stated that a minimum 16 mil liner and felt subliner will be used which appears to be adequate for this location. A drainage diversion will be needed for this location. This appears to be a good location for placement of this well.

Richard Powell  
**Onsite Evaluator**

8/21/2012  
**Date / Time**

#### Conditions of Approval / Application for Permit to Drill

<b>Category</b>	<b>Condition</b>
Pits	A synthetic liner with a minimum thickness of 16 mils with a felt subliner shall be properly installed and maintained in the reserve pit.
Surface	Drainages adjacent to the proposed pad shall be diverted around the location.
Surface	The reserve pit shall be fenced upon completion of drilling operations.

## WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 7/25/2012

API NO. ASSIGNED: 43013516000000

WELL NAME: 13-5D-35 BTR

OPERATOR: BILL BARRETT CORP (N2165)

PHONE NUMBER: 303 312-8172

CONTACT: Venessa Langmacher

PROPOSED LOCATION: SWSW 05 030S 050W

Permit Tech Review: ☒

SURFACE: 0609 FSL 0993 FWL

Engineering Review: ☐

BOTTOM: 0810 FSL 0810 FWL

Geology Review: ☒

COUNTY: DUCHESNE

LATITUDE: 40.24351

LONGITUDE: -110.48024

UTM SURF EASTINGS: 544208.00

NORTHINGS: 4454915.00

FIELD NAME: ALTAMONT

LEASE TYPE: 2 - Indian

LEASE NUMBER: 2OG0005608

PROPOSED PRODUCING FORMATION(S): GREEN RIVER-WASATCH

SURFACE OWNER: 4 - Fee

COALBED METHANE: NO

## RECEIVED AND/OR REVIEWED:

☒ PLAT☒ Bond: INDIAN - LPM8874725☐ Potash☐ Oil Shale 190-5☐ Oil Shale 190-3☐ Oil Shale 190-13☒ Water Permit: 43-180☐ RDCC Review:☒ Fee Surface Agreement☐ Intent to Commingle

Commingle Approved

## LOCATION AND SITING:

☐ R649-2-3.

Unit:

☐ R649-3-2. General☐ R649-3-3. Exception☒ Drilling Unit

Board Cause No: Cause 139-91

Effective Date: 6/7/2012

Siting: 660' Fr Sectional Bdry &amp; 990' Fr other wells

☒ R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations: 4 - Federal Approval - dmason  
5 - Statement of Basis - bhll  
15 - Directional - dmason

RECEIVED: September 12, 2012



GARY R. HERBERT  
*Governor*

GREGORY S. BELL  
*Lieutenant Governor*

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
*Executive Director*

### Division of Oil, Gas and Mining

JOHN R. BAZA  
*Division Director*

## Permit To Drill

\*\*\*\*\*

**Well Name:** 13-5D-35 BTR  
**API Well Number:** 43013516000000  
**Lease Number:** 2OG0005608  
**Surface Owner:** FEE (PRIVATE)  
**Approval Date:** 9/12/2012

### Issued to:

BILL BARRETT CORP, 1099 18th Street Ste 2300, Denver, CO 80202

### Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 139-91. The expected producing formation or pool is the GREEN RIVER-WASATCH Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

### Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

### General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

### Conditions of Approval:

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

### Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well - contact Carol Daniels at 801-538-5284

(please leave a voicemail message if not available)

OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website  
at <http://oilgas.ogm.utah.gov>

**Reporting Requirements:**

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) - due within 5 days of spudding the well
- Monthly Status Report (Form 9) - due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) - due prior to implementation
- Written Notice of Emergency Changes (Form 9) - due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) - due prior to implementation
- Report of Water Encountered (Form 7) - due within 30 days after completion
- Well Completion Report (Form 8) - due within 30 days after completion or plugging

**Approved By:**

A handwritten signature in black ink, appearing to read "John Rogers", written over a horizontal line.

For John Rogers  
Associate Director, Oil & Gas



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

SEP 05 2012

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED  
OMB No. 1004-0136  
Expires July 31, 2010

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. 20G0005608	
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name	
2. Name of Operator BILL BARRETT CORPORATION		7. If Unit or CA Agreement, Name and No.	
3a. Address 1099 18TH STREET SUITE 2300 DENVER, CO 80202		8. Lease Name and Well No. 13-5D-35 BTR	
3b. Phone No. (include area code) Ph: 303-312-8172 Fx: 303-291-0420		9. API Well No. 43-013-51000	
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SWSW 609FSL 993FWL 40.243547 N Lat, 110.480172 W Lon At proposed prod. zone SWSW 810FSL 810FWL 40.244094 N Lat, 110.480831 W Lon		10. Field and Pool, or Exploratory ALTAMONT	
14. Distance in miles and direction from nearest town or post office* 9.1 MILES NORTHWEST OF DUCHESNE, UT		11. Sec., T., R., M., or Blk. and Survey or Area Sec 5 T3S R5W Mer UBM	
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 810' (BOTTOM HOLE)		12. County or Parish DUCHESNE	
16. No. of Acres in Lease 66101.00		13. State UT	
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. NONE		17. Spacing Unit dedicated to this well 80.00	
19. Proposed Depth 11746 MD 11735 TVD		20. BLM/BIA Bond No. on file LPM8874725	
21. Elevations (Show whether DF, KB, RT, GL, etc.) 6159 GL		23. Estimated duration 60 DAYS (D&C)	
22. Approximate date work will start 01/01/2013		24. Attachments	

RECEIVED  
JAN 10 2013

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
6. Such other site specific information and/or plans as may be required by the authorized officer.

DIV. OF OIL, GAS & MINING

25. Signature (Electronic Submission)	Name (Printed/Typed) VENESSA LANGMACHER Ph: 303-312-8172	Date 09/05/2012
Title SENIOR PERMIT ANALYST		
Approved by (Signature)	Name (Printed/Typed) Jerry Kenczka	Date JAN 04 2013
Title Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE	

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
Conditions of approval, if any, are attached.

CONDITIONS OF APPROVAL ATTACHED

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Additional Operator Remarks (see next page)

Electronic Submission #148810 verified by the BLM Well Information System  
For BILL BARRETT CORPORATION, sent to the Vernal  
Committed to AFMSS for processing by LESLIE ROBINSON on 09/12/2012

NOTICE OF APPROVAL

\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\*

12PRH 2805A2

NOS- 7/24/12.

UDOGM



UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



**CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL**

Company: Bill Barrett Corporation  
Well No: 13-5D-35 BTR  
API No: 43-013-51600

Location: SWSW, Sec. 5, T3S, R5W  
Lease No: 2OG0005608  
Agreement: N/A

**OFFICE NUMBER: (435) 781-4400**

**OFFICE FAX NUMBER: (435) 781-3420**

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR  
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

**NOTIFICATION REQUIREMENTS**

Construction Activity (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	- The Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist shall be notified at least 48 hours in advance of any construction activity. The Ute Tribal office is open Monday through Thursday.
Construction Completion (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	- Upon completion of the pertinent APD/ROW construction, notify the Ute Tribe Energy & Minerals Dept. for a Tribal Technician to verify the Affidavit of Completion. Notify the BLM Environmental Scientist prior to moving on the drilling rig.
Spud Notice (Notify BLM Petroleum Engineer)	- Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify BLM Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to running casing and cementing all casing strings to: <a href="mailto:blm_ut_vn_opreport@blm.gov">blm_ut_vn_opreport@blm.gov</a> .
BOP & Related Equipment Tests (Notify BLM Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify BLM Petroleum Engineer)	- Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

***SURFACE USE PROGRAM  
CONDITIONS OF APPROVAL (COAs)***

**Additional Stipulations:**

- Any deviation of submitted APD's, which includes BBCs surface use plan, and ROW applications the operator will notify the BLM in writing and will receive written authorization of any such change with appropriate authorization.
- The operator will implement "Safety and Emergency Plan." The operator's safety director will ensure its compliance.
- All operator employees and/or authorized personnel (sub-contractors) in the field will have approved applicable APD's, COAs, and ROW permits/authorizations on their person(s) during all phases of construction.
- All vehicular traffic, personnel movement, construction/restoration operations shall be confined to the area examined and approved, and to the existing roadways and/or evaluated access routes.
- Noxious weeds will be treated, monitored, and controlled along both the access road, pipeline route, and on the well pad itself.
- Insure topsoil stability on location and use topsoil for interim reclamation as soon as possible to maintain viability of the topsoil resource. If stored for a longer period of time then topsoil will be maintained to increase viability until the resource can be used for reclamation purposes only.
- All above ground production facilities will be painted Beetle Green on all locations to help blend in with the surrounding habitat, unless otherwise directed by the landowner or BLM AO.
- The operator must conduct operations to minimize adverse effects to surface and subsurface resources. This will be accomplished by staying on the approved acres of disturbance, and conforming to dust mitigation technology and doing interim reclamation practices on unused portions of the proposal.
- All dry washes will be diverted away from the actual well pad as discussed during the onsite investigation, and as agreed to by the landowner (BBC).
- Culverts will be increased in size from 18" to 24" to accommodate seasonal fluxes in precipitation in the area as agreed to on the onsite.
- Site reclamation will be accomplished for portions of the well pad not needed for production, within 6 months of completion, weather permitting. This also includes any roads, and pipeline areas that have been disturbed as well. Road areas not being used and pipeline disturbances can undergo reclamation immediately after the pipeline is installed and after the roads are built. Please contact the private landowner for seed mixes that work in the area. This could also be included in the reclamation plan from BBC. Seeds must be planted in August and prior to ground freeze. Non-natives can be used; however lbs/ac must be kept low to minimize the chance of a monoculture.

**DOWNHOLE PROGRAM  
CONDITIONS OF APPROVAL (COAs)**

**SITE SPECIFIC DOWNHOLE COAs:**

- A CBL shall be run from TD to TOC in the Production Casing.
- The minimum TOC for the 5.5 inch casing shall be 200 ft. above the surface casing shoe.

**All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to.** The following items are emphasized:

**DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth

(from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in CD (compact disc) format to the Vernal BLM Field Office. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

#### OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at [www.ONRR.gov](http://www.ONRR.gov).
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location (¼¼, Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - Unit agreement and/or participating area name and number, if applicable.
  - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if



performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 20G0005608
<b>1. TYPE OF WELL</b> Oil Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202		<b>8. WELL NAME and NUMBER:</b> 13-5D-35 BTR
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0609 FSL 0993 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWSW Section: 05 Township: 03.0S Range: 05.0W Meridian: U		<b>9. API NUMBER:</b> 43013516000000
<b>PHONE NUMBER:</b> 303 312-8164 Ext		<b>9. FIELD and POOL or WILDCAT:</b> ALTAMONT
<b>COUNTY:</b> DUCHESNE		<b>STATE:</b> UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME	
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: <b>4/10/2013</b>	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  
 This well was spud on 4/10/2013 at 12:00 pm by Triple A Drilling, Rig #TA 4037, Type Soilmecc SR/30. Continuous drilling is planned to commence on 4/20/2013.

Accepted by the  
 Utah Division of  
 Oil, Gas and Mining  
**FOR RECORD ONLY**  
 April 15, 2013

<b>NAME (PLEASE PRINT)</b> Venessa Langmacher	<b>PHONE NUMBER</b> 303 312-8172	<b>TITLE</b> Senior Permit Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 4/11/2013	

BLM - Vernal Field Office - Notification Form

Operator Bill Barrett Corp. Rig Name/# Patterson Rig 506  
Submitted By Ricky Kuhr Phone Number 435-828-6095  
Well Name/Number 13-5D-35 BTR  
Qtr/Qtr SW/SW Section 5 Township 3S Range 5W  
Lease Serial Number 2OG0005608  
API Number 43-013-51600

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time 4/20/2013 12:30 AM ☐ PM ☒

Casing – Please report time casing run starts, not cementing times.

- ☒ Surface Casing
- ☐ Intermediate Casing
- ☐ Production Casing
- ☐ Liner
- ☐ Other

Date/Time 4/23/2013 4:00 AM ☒ PM ☐

BOPE

- ☒ Initial BOPE test at surface casing point
- ☐ BOPE test at intermediate casing point
- ☐ 30 day BOPE test
- ☐ Other

RECEIVED  
APR 20 2013  
DIV. OF OIL, GAS & MINING

Date/Time 4/23/2013 20:30 AM ☐ PM ☒

Remarks Any changes to the time frame will be e-mailed in a prompt amount of time

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
		5. LEASE DESIGNATION AND SERIAL NUMBER: 20G0005608
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well		8. WELL NAME and NUMBER: 13-5D-35 BTR
2. NAME OF OPERATOR: BILL BARRETT CORP		9. API NUMBER: 43013516000000
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202		9. FIELD and POOL or WILDCAT: ALTAMONT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0609 FSL 0993 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 05 Township: 03.0S Range: 05.0W Meridian: U		COUNTY: DUCHESNE
		STATE: UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 4/30/2013	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Attached is the April 2013 Drilling Activity for this well.

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 May 03, 2013

NAME (PLEASE PRINT) Brady Riley	PHONE NUMBER 303 312-8115	TITLE Permit Analyst
SIGNATURE N/A		DATE 5/3/2013



**13-5D-35 BTR 4/17/2013 06:00 - 4/18/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 5,932.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	12.00	18:00	1	RIGUP & TEARDOWN	STAGE OVER RIG F/ 14-7D-45 BTR TO 13-5D-45 BTR DUE TO MUDDY LOCATION STAGE OVER 40% RIG UP SHACKES, SHAKERS
18:00	12.00	06:00	1	RIGUP & TEARDOWN	WAIT ON DAYLIGHTS

**13-5D-35 BTR 4/18/2013 06:00 - 4/19/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 5,932.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	12.00	18:00	1	RIGUP & TEARDOWN	RIG UP, RIG MOVE SET SUBS, MUD PUMPS PITS, PUT TOGETHER DERRICK SET ON FLOOR, DRAW WORKS
18:00	12.00	06:00	1	RIGUP & TEARDOWN	WAIT ON DAY LIGHTS

**13-5D-35 BTR 4/19/2013 06:00 - 4/20/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 5,932.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	1	RIGUP & TEARDOWN	RIG MOVE STAGE THE REST OF THE BUILDINGS INTO PLACE RASIE DERRICK AT13:30 SET CAT WALK, BEAVER SLIDE, PIPE TUBS, BRIDLE DOWN RIG UP FLOOR, INSTALL RISER, INSTALL FLOW LINE, FILL PIT, PUT UP WIND WALLS, PICK UP AND MAKE UP KELLY

**13-5D-35 BTR 4/20/2013 06:00 - 4/21/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 5,932.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	4.00	10:00	1	RIGUP & TEARDOWN	FINISH RIGGING UP. FLARE LINES GASBUSTER LINES STRAP BHA AND DIRECTIONAL TOOLS, PRE SPUD INSPECTION
10:00	2.00	12:00	20	DIRECTIONAL WORK	PICK UP DIRECTIONAL TOOLS (MONELS & MWD) SCRIBE M/U BIT, ALSO PICK UP SHOCK SUB & REAMERS
12:00	18.00	06:00	2	DRILL ACTUAL	STEERABLE DRILLING F/ 80'-1182' (1102' @ 61' Hr AVG). WOB 17k, GPM 552, MTR RPM 95, RPM 45 SLIDING 10%, ROTOATE 90%.

**13-5D-35 BTR 4/21/2013 06:00 - 4/22/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 5,932.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.50	17:30	2	DRILL ACTUAL	STEERABLE DRILLING F/ 1182'-1816' (634' @ 55' Hr AVG). WOB 18k, GPM 600, MTR RPM 108 RPM 45 SLIDING 10%, ROTOATE 90%.
17:30	0.50	18:00	7	LUBRICATE RIG	RIG SERVICE
18:00	12.00	06:00	2	DRILL ACTUAL	STEERABLE DRILLING F/ 1,816'-2,419' (603' @ 55' Hr AVG). WOB 18k, GPM 600, MTR RPM 108 RPM 45 SLIDING 10%, ROTOATE 90%.

**13-5D-35 BTR 4/22/2013 06:00 - 4/23/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 5,932.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	7.00	13:00	2	DRILL ACTUAL	STEERABLE DRILLING F/ 2,419'-2,608' (189' @ 27' Hr AVG). WOB 22k, GPM 600, MTR RPM 108 RPM 45 SLIDING 10%, ROTOATE 90%. SEEPAGE @ 2,505'
13:00	1.50	14:30	5	COND MUD & CIRC	CIRCULATE SWEEP AROUND FOR TRIP
14:30	3.50	18:00	6	TRIPS	TRIP OUT OF HOLE TO CHANGE BIT AND MM
18:00	1.50	19:30	20	DIRECTIONAL WORK	CHANGE OUT BIT AND MUD MOTOR RE SCRIB
19:30	2.00	21:30	6	TRIPS	TRIP IN HOLE
21:30	0.50	22:00	3	REAMING	WASH TO BOTTON
22:00	8.00	06:00	2	DRILL ACTUAL	STEERABLE DRILLING F/ 2,608'-2,845' (237' @ 29' Hr AVG). WOB 22k, GPM 600, MTR RPM 108 RPM 45 SLIDING 10%, ROTOATE 90%.

**13-5D-35 BTR 4/23/2013 06:00 - 4/24/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 5,932.0	Primary Job Type Drilling & Completion
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	10.00	16:00	2	DRILL ACTUAL	STEERABLE DRILLING F/ 2,845'-3,053' (208' @ 20.8/ Hr AVG). WOB 25k, GPM 480, MTR RPM 81 RPM 45 SLIDING 10%, ROTOATE 90%.SEEPAGE @ 2,974'	
16:00	0.50	16:30	7	LUBRICATE RIG	RIG SERVICE	
16:30	13.50	06:00	2	DRILL ACTUAL	STEERABLE DRILLING F/ 3053'-3,339' (286' @ 21.1/ Hr AVG). WOB 25k, GPM 480, MTR RPM 81 RPM 45 SLIDING 10%, ROTOATE 90%	

**13-5D-35 BTR 4/24/2013 06:00 - 4/25/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 5,932.0	Primary Job Type Drilling & Completion
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	11.50	17:30	2	DRILL ACTUAL	STEERABLE DRILLING F/ 3,339'-3,619' (280' @ 21.1/ Hr AVG). WOB 25k, GPM 480, MTR RPM 81 RPM 45 SLIDING 10%, ROTOATE 90%	
17:30	0.50	18:00	7	LUBRICATE RIG	RIG SERVICE	
18:00	2.00	20:00	2	DRILL ACTUAL	STEERABLE DRILLING F/ 3,619'-3,630' (11' @ 5.5/ Hr AVG). WOB 25k, GPM 480, MTR RPM 81 RPM 45 SLIDING 10%, ROTOATE 90%	
20:00	0.50	20:30	5	COND MUD & CIRC	CIRCULATE SWEEP AROUND TRIP OUT TO CHANGE BIT AND MOTOR	
20:30	4.00	00:30	6	TRIPS	TRIP OUT OF HOLE FOR BIT AND MM	
00:30	1.00	01:30	20	DIRECTIONAL WORK	CHANGE OUT BIT AND MOTOR RE SCRIBE	
01:30	4.50	06:00	6	TRIPS	TRIP IN HOLE HIT TIGHT SPOTS @ 2311, 2319, 2621'	

**13-5D-35 BTR 4/25/2013 06:00 - 4/26/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 5,932.0	Primary Job Type Drilling & Completion
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	0.50	06:30	6	TRIPS	FINISH TRIPPING IN HOLE	
06:30	0.50	07:00	2	DRILL ACTUAL	STEERABLE DRILLING F/ 3,630'-3640' (10' @ 40/ Hr AVG). WOB 25k, GPM 480, MTR RPM 81 RPM 45 SLIDING 0%, ROTOATE 100%	
07:00	1.50	08:30	5	COND MUD & CIRC	CIRCULATE MUD NO RETURNS BUILD VOLUME AND PUMP LCM SWEEPS	
08:30	6.00	14:30	5	COND MUD & CIRC	STAGE OUT 24 STANDS FOR LOSSES REGAIN CIRCULATION @ 2,199' STAGE BACK IN HOLE 3 STANDS AT A TIME BREAK CIRCULATION GOOD RETURNS	
14:30	4.00	18:30	2	DRILL ACTUAL	STEERABLE DRILLING F/ 3,640'-3,769' (129' @ 32/ Hr AVG). WOB 25k, GPM 400, MTR RPM 68 RPM 45 SLIDING 0%, ROTOATE 100%	
18:30	2.00	20:30	5	COND MUD & CIRC	LOST RETURNS CIRCULATE & STAGE HIGH LCM SWEEP DOWN HOLE	
20:30	4.00	00:30	6	TRIPS	TRIP OUT OF THE HOLE TO LAY DOWN REAMERS AND DIRECTIONAL TOOLS	
00:30	1.50	02:00	20	DIRECTIONAL WORK	LAY DOWN DIRECTIONAL TOOLS AND REAMERS	
02:00	4.00	06:00	6	TRIPS	TRIP IN THE HOLE BREAKING CIRCULATION EVERY 1000'	

**13-5D-35 BTR 4/26/2013 06:00 - 4/27/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 5,932.0	Primary Job Type Drilling & Completion
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	7.50	13:30	2	DRILL ACTUAL	DRILLING F/ 3,769'-3,914' GPM 350-400 RPM 45-52 (FOOTAGE 145' AVG. ROP 20.7 PER HR.)	
13:30	0.50	14:00	5	COND MUD & CIRC	CIRCULATE FOR LOSSES BUILD VOLUME	
14:00	3.50	17:30	2	DRILL ACTUAL	DRILLING F/ 3,914'-4,010" GPM 350-400 RPM 45-52	
17:30	0.50	18:00	7	LUBRICATE RIG	RIG SERVICE	
18:00	0.50	18:30	2	DRILL ACTUAL	DRILLING F/ 4,010'-4,030" SURFACE TD GPM 350-400 RPM 45-52	
18:30	0.50	19:00	5	COND MUD & CIRC	CIRCULATE BOTTOMS UP	
19:00	1.00	20:00	6	TRIPS	TRIP OUT 5 STANDS BREAK CIRC	
20:00	1.50	21:30	5	COND MUD & CIRC	CIRCULATE MUD PUMP LCM SWEEPS DOWN HOLE	
21:30	3.50	01:00	6	TRIPS	TRIP OUT OF HOLE FOR CASING RUN LAY DOWN 8' DCs AND MUD MOTOR & BIT	
01:00	5.00	06:00	12	RUN CASING & CEMENT	HELD S/M WITH KIMZEY ON RIG UP & RUNNING CASING RUN J-55 36# LTC	

**13-5D-35 BTR 4/27/2013 06:00 - 4/28/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 5,932.0	Primary Job Type Drilling & Completion
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**Time Log**

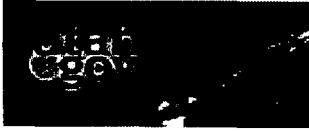
Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	7.50	13:30	12	RUN CASING & CEMENT	HOLD S/M WITH RIG CREW AND KIMZEY RUN CASING 36# J-55 LTC 9 5/8 SET AT 4,020' RIG DOWN CASING CREWS AND RIG UP CEMENTERS
13:30	4.50	18:00	12	RUN CASING & CEMENT	HELD S/M WITH HALLUBIRTON CEMENT PUMP 3 BBLS FRESH WATER (FILL LINES) PRESSURE TEST LINES TO 3000 PUMP FRESH SPACER 17 BBLS PUMP SUPER FLUSH 40 BBLS DEN 10 PUMP FRESH SPACER 20 BBLS PUMP LEAD CEMENT 394 BBLS 700 SKS DEN: 11# YD 3.16 GAL/SK 19.43 PUMP TAIL CEMENT 57 BBLS 8DEN 14.8# YD 1.37 GAL/SK 6.62 DROP PLUG DISPLACE WITH RIG MUD 307.6 BBLS BUMP PLUG @ 400 OVER CHECK FLOATS 3 MINS {HELD} NO RETURNS
18:00	2.00	20:00	12	RUN CASING & CEMENT	RIG UP 1" TOP JOB #1 175 SKS 36 BBLS 15.8# 1.17 YD 5.02 GAL/PER SK NO RETURNS
20:00	1.50	21:30	13	WAIT ON CEMENT	WOC
21:30	1.00	22:30	12	RUN CASING & CEMENT	TOP JOB #2 175 SKS 36 BBLS 15.8# 1.17 YD 5.02 GAL/PER SK NO RETURNS
22:30	4.00	02:30	13	WAIT ON CEMENT	WOC
02:30	1.00	03:30	12	RUN CASING & CEMENT	TOP JOB #3 384 SKS 80 BBLS 15.8# 1.17 YD 5.02 GAL/PER SK NO RETURNS
03:30	2.50	06:00	13	WAIT ON CEMENT	WOC

**13-5D-35 BTR 4/28/2013 06:00 - 4/29/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 5,932.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.50	07:30	13	WAIT ON CEMENT	WOC
07:30	1.00	08:30	12	RUN CASING & CEMENT	TOP JOB #4 175 SKS 36 BBLS 15.8# 1.17 YD 5.02 GAL/PER SK NO RETURNS
08:30	3.50	12:00	13	WAIT ON CEMENT	WOC
12:00	1.00	13:00	12	RUN CASING & CEMENT	TOP JOB #5 175 SKS 36 BBLS 15.8# 1.17 YD 5.02 GAL/PER SK NO RETURNS
13:00	2.50	15:30	13	WAIT ON CEMENT	WOC
15:30	2.00	17:30	12	RUN CASING & CEMENT	TOP JOB 175 SKS 36 BBLS 15.8# 1.17 YD 5.02 GAL/PER SK RETURNS WITH GOOD TOP OUT FLUSH RISER RIG DOWN CEMENTERS
17:30	6.50	00:00	14	NIPPLE UP B.O.P	RIG DOWN CONDUCTOR CUT OFF CASING/WELD ON WELL HEAD N/U BOPS
00:00	5.00	05:00	15	TEST B.O.P	HELD S/M WITH B&C QUICK TEST LOW 250 5 MIN HIGH 10 MINS 5,000 TEST F.O.S.V LOWER KELLY UPPER KELLY VLAVE DART VALVE PIPE RAMS BLIND RAMS INSIDE VALVES HCR OUT SIDE KILL CHOKE LINE CHECK VLAVE UPRIGHT GAGE INSIDE MANIFOLD VALVES SUPER CHOKETEST ANNULAR TO 2500 TEST CASING 1500 PSI 30 MINS TESTER ERIK WALKINS
05:00	0.50	05:30	21	OPEN	SET WARE BUSHING
05:30	0.50	06:00	20	DIRECTIONAL WORK	PICK UP DIRECTIONAL TOOLS REAMERS MWD MONELS M/U BIT SCRIBE TOOL



SWSW S-05 T03S R05W API #43 013 51600

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## Production casing 13-5d-35 BTR

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pat506 <pat506@billbarrettcorp.com>

Sat, May 11, 2013 at 8:26 AM

To: Brady Riley <briley@billbarrettcorp.com>, Venessa Langmacher <vlangmacher@billbarrettcorp.com>, pat506 <pat506@billbarrettcorp.com>, Tracey Fallang <tfallang@billbarrettcorp.com>, "alexishuefner@utah.gov" <alexishuefner@utah.gov>, "caroldaniels@utah.gov" <caroldaniels@utah.gov>, "dennisingram@utah.gov" <dennisingram@utah.gov>, "richardpowell@utah.gov" <richardpowell@utah.gov>, "ut\_vn\_opreport@blm.gov" <ut\_vn\_opreport@blm.gov>

Ladies & Gentleman

Patterson 506 plans on running 5.5 production casing and cementing  
on 5/12/2013 @ appr. 12:00 pm

Thank You

Monte C Long  
Bill Barret Corporation  
Patterson 506  
435-828-6095  
pat506@billbarrettcorp.com

**RECEIVED**

**MAY 11 2013**

**DIV. OF OIL, GAS & MINING**



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
		5. LEASE DESIGNATION AND SERIAL NUMBER: 20G0005608
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: 13-5D-35 BTR	
2. NAME OF OPERATOR: BILL BARRETT CORP	9. API NUMBER: 43013516000000	
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202	PHONE NUMBER: 303 312-8134 Ext	9. FIELD and POOL or WILDCAT: ALTAMONT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0609 FSL 0993 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 05 Township: 03.0S Range: 05.0W Meridian: U	COUNTY: DUCHESNE	
		STATE: UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 5/31/2013	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Attached is the May 2013 Drilling Activity for this well.

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 June 06, 2013

NAME (PLEASE PRINT) Brady Riley	PHONE NUMBER 303 312-8115	TITLE Permit Analyst
SIGNATURE N/A	DATE 6/5/2013	

**13-5D-35 BTR 5/1/2013 06:00 - 5/2/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,222.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	10.50	16:30	2	DRILL ACTUAL	STEERABLE DRILLING F/ 5,932'-6249 (317' @ 31.7'/ Hr AVG). WOB 19k, GPM 546, MTR RPM 81 RPM 38 SLIDING 40%, ROTOATE 60%.
16:30	0.50	17:00	7	LUBRICATE RIG	RIG SERVICE
17:00	13.00	06:00	2	DRILL ACTUAL	STEERABLE DRILLING F/ 6249'- 6725' @ 36.6'/ Hr AVG). WOB 20 k, GPM 546, MTR RPM 81 RPM 38 SLIDING 40%, ROTATE 60%.

**13-5D-35 BTR 5/2/2013 06:00 - 5/3/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,222.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	10.50	16:30	2	DRILL ACTUAL	STEERABLE DRILLING F/ 6725'-7233' @ 48.4'/ Hr AVG). WOB 20 k, GPM 546, MTR RPM 81 RPM 43 SLIDING 25%, ROTATE 75%.
16:30	0.50	17:00	7	LUBRICATE RIG	RIG SERVICE
17:00	13.00	06:00	2	DRILL ACTUAL	STEERABLE DRILLING F/ 7233'-7677 @ 34.2'/ Hr AVG). WOB 20 k, GPM 559, MTR RPM 84 RPM 43 SLIDING 61%, ROTATE 39%.

**13-5D-35 BTR 5/3/2013 06:00 - 5/4/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,222.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.00	17:00	2	DRILL ACTUAL	STEERABLE DRILLING F/ 7677'-8088' @ 37.4'/ Hr AVG). WOB 22 k, GPM 559, MTR RPM 84 RPM 43 SLIDING 61%, ROTATE 39%.
17:00	0.50	17:30	7	LUBRICATE RIG	RIG SERVICE
17:30	12.50	06:00	2	DRILL ACTUAL	STEERABLE DRILLING F/ 8088'-8564' @ 41.4'/ Hr AVG). WOB 22 k, GPM 559, MTR RPM 84 RPM 43 SLIDING 10%, ROTATE 90%.

**13-5D-35 BTR 5/4/2013 06:00 - 5/5/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,222.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	10.00	16:00	2	DRILL ACTUAL	STEERABLE DRILLING F/8564'-8977' @ 41.3'/ Hr AVG). WOB 23 k, GPM 559, MTR RPM 84 RPM 43 SLIDING 10%, ROTATE 90%.
16:00	0.50	16:30	7	LUBRICATE RIG	RIG SERVICE
16:30	10.50	03:00	2	DRILL ACTUAL	STEERABLE DRILLING F/8977'-9299' @ 322'/30.6' Hr AVG). WOB 23 k, GPM 559, MTR RPM 84 RPM 43 SLIDING 0, ROTATE 100%.
03:00	1.00	04:00	5	COND MUD & CIRC	CIRC SWEEP/PUMP DRY JOB
04:00	2.00	06:00	6	TRIPS	TOOH f/BIT & MOTOR

**13-5D-35 BTR 5/5/2013 06:00 - 5/6/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,222.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.00	09:00	6	TRIPS	TOOH/HOLR TAKING MUD
09:00	2.00	11:00	20	DIRECTIONAL WORK	CHANGE BATTERIES IN MWD,MM& BIT ORIENT DIRC. TOOLS
11:00	3.00	14:00	6	TRIPS	TIH TO SHOE FILL PIPE
14:00	0.50	14:30	7	LUBRICATE RIG	RIG SERVICE
14:30	1.00	15:30	9	CUT OFF DRILL LINE	CUT DRILLING LINE
15:30	4.50	20:00	6	TRIPS	TIH
20:00	0.50	20:30	3	REAMING	WASH 30' TO BOTTOM 9269-9299
20:30	9.50	06:00	2	DRILL ACTUAL	STEERABLE DRILLING F/9299'-9558 @ 259'/27.3' Hr AVG). WOB 17 k, GPM 550, MTR RPM 46 RPM 43 SLIDING 0, ROTATE 100%.

**13-5D-35 BTR 5/6/2013 06:00 - 5/7/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,222.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	10.50	16:30	2	DRILL ACTUAL	STEERABLE DRILLING F/9558'-9897' @ 339'/32.3' Hr AVG). WOB 22 k, GPM 485, MTR RPM 46 RPM 43 SLIDING 10, ROTATE 90%.
16:30	0.50	17:00	7	LUBRICATE RIG	RIG SERVICE
17:00	13.00	06:00	2	DRILL ACTUAL	STEERABLE DRILLING F/9897'-10245' @ 345'/31.6' Hr AVG). WOB 25 k, GPM 485, MTR RPM 46 RPM 43 SLIDING , ROTATE 100%.

**13-5D-35 BTR 5/7/2013 06:00 - 5/8/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,222.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	6.00	12:00	5	COND MUD & CIRC	CIRC OUT GAS THROUGH BUSTER & RAISE MW TO 10.1
12:00	6.00	18:00	6	TRIPS	TOOH FOR BIT AND MM
18:00	9.00	03:00	6	TRIPS	CHANGE BIT & MM LD ROLLER REAMERS/ TIH TO SHOE CIRC BU/TIH FILL PIPE EVERY 1000'
03:00	1.50	04:30	3	REAMING	WASH TO BOTTOM 10125-10245
04:30	1.50	06:00	2	DRILL ACTUAL	DRILL 5-10 WOB 350 GPM 40 RPM ON TABLE

**13-5D-35 BTR 5/8/2013 06:00 - 5/9/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,222.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	9.50	15:30	2	DRILL ACTUAL	STEERABLE DRILLING F/10250'-10489' @ 239'/25.2' Hr AVG). WOB 15 k, GPM 485, MTR RPM 46 RPM 43 SLIDING10% , ROTATE 90%.
15:30	0.50	16:00	7	LUBRICATE RIG	RIG SERVICE
16:00	5.50	21:30	2	DRILL ACTUAL	STEERABLE DRILLING F/10489'-10627' @ 138'/25.1' Hr AVG). WOB 15 k, GPM 485, MTR RPM 46 RPM 40 SLIDING10% , ROTATE 90%.
21:30	8.50	06:00	5	COND MUD & CIRC	CIRC OUT GAS ON BUSTER 4000 UNITS GAS 25-30 FLARE RAISE MW FROM 10.1 TO 10.8+ LCM 18% WT UP PRE-MIX AND TRANSFER TO UPRIGHT & REBUILD PRE-MIX

**13-5D-35 BTR 5/9/2013 06:00 - 5/10/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,222.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	5.50	11:30	5	COND MUD & CIRC	CIRC OUT GAS ON BUSTER 4000 UNITS GAS 20-25 FLARE RAISE MW FROM 10.8 TO 11.0 LCM 25%
11:30	4.50	16:00	2	DRILL ACTUAL	BIT WT= 15K RPM= 40 SPM=150
16:00	0.50	16:30	7	LUBRICATE RIG	RIG SERVICE
16:30	5.50	22:00	2	DRILL ACTUAL	BIT WT= 15K RPM= 40 SPM=150
22:00	6.50	04:30	5	COND MUD & CIRC	SHUT WELL IN CIRC OUT GAS THRU CHOKE
04:30	1.50	06:00	5	COND MUD & CIRC	CIRC & RAISE MW TO 11.4 PPG RAISE 1/10 A CIRCULATION

**13-5D-35 BTR 5/10/2013 06:00 - 5/11/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,222.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	6.50	12:30	5	COND MUD & CIRC	CIRC RAISE MW TO 11.4 PPG
12:30	1.00	13:30	2	DRILL ACTUAL	BIT WT= 15K RPM= 40 SPM=150
13:30	1.00	14:30	5	COND MUD & CIRC	CIRC BOTTOMS UP AFTER DRILLING BREAK
14:30	1.50	16:00	2	DRILL ACTUAL	BIT WT= 15K RPM= 40 SPM=150
16:00	0.50	16:30	7	LUBRICATE RIG	RIG SERVICE

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
16:30	13.50	06:00	2	DRILL ACTUAL	BIT WT= 15K RPM= 40 SPM=150

**13-5D-35 BTR 5/11/2013 06:00 - 5/12/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,222.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.50	07:30	2	DRILL ACTUAL	BIT WT= 15K RPM= 40 SPM=150 11229 TD
07:30	1.00	08:30	5	COND MUD & CIRC	CIRC SWEEP
08:30	3.00	11:30	6	TRIPS	WIPER TRIP 20 STDS
11:30	4.00	15:30	5	COND MUD & CIRC	CIRC SWEEP MIX AND SPOT KILL PILL 10,000' TO 8500'
15:30	14.50	06:00	6	TRIPS	LDDP

**13-5D-35 BTR 5/12/2013 06:00 - 5/13/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,222.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	6.50	12:30	6	TRIPS	LAY DOWN DRILL PIP/HWDC/DCs/MM/BIT & BREAK KELLY
12:30	13.00	01:30	12	RUN CASING & CEMENT	HOLD S/M WITH WEATHERFORD RUN CASING 5.5 LT&C 17# FILL PIPE AND BREAK CIRCULATION EVERY 1000' RUN CASING F/ 0'-8,958'
01:30	3.00	04:30	12	RUN CASING & CEMENT	CIRCULATE BTMS UP
04:30	1.50	06:00	12	RUN CASING & CEMENT	RUN CASING WITH WEATHERFORD F/ 8,958'-10,576'

**13-5D-35 BTR 5/13/2013 06:00 - 5/14/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,222.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.50	09:30	12	RUN CASING & CEMENT	RUN CASING F/ 10,576'-11,222'
09:30	1.50	11:00	12	RUN CASING & CEMENT	CIRCULATE BOTTOMS UP
11:00	2.50	13:30	12	RUN CASING & CEMENT	HOLD S/M WITH HALLIBURTON RIG UP AND PUMP 1ST STAGE OF CEMENT JOB FILL LINES 3 BBLs TEST TO 5000 PSI 40 BBLs TUNED SPACER 12.5# F3/SK 10.53 GAL/SK 216 BBLs TAIL CEMENT @ 14.2# 1.25 F3/SK 5.37 GAL/SK WASH LINES DROP PLUG/ DISPLACEMENT 80 MUD 30 H2O 148.3 MUD SLOW RATE @ 153 AWAY T 3 BBLs A MIN FOR 20 BBLs TOTAL DISPLACEMENT 258.3 BBLs BUMP PLUG 500 OVER FINAL PRESSURE FINAL DIFF 1700 DROP DV DART WAIT 37 MINS PRESSURE UP 1200 PSI TO OPEN TOOL
13:30	3.00	16:30	12	RUN CASING & CEMENT	WOC CIRCULATE NO RETURNS
16:30	3.00	19:30	12	RUN CASING & CEMENT	HOLD S/M WITH HALLIBURTON PUMP SECOND STAGE PUMP 3 BBLs H2O TEST TO 5000 PSI 40 BBLs TUNED SPACER @ 12# 4.99 F3/SK 31.16/GAL SK 352.6 BBLs LEAD CEMENT @ 12.5# 1.96 F3/SK 10.53 GAL/SK 41.6 BBLs TAIL CEMENT @ 15.6# 1.17F3/SK 5.17 GAL/SK SHUT DOWN WASH UP LINES DROP PLUG DISPLACE 163 BBLs H2O SLOW RATE T/ 3 BBLs PER MIN 10 BBLs LIFT PRESSURE 1130 PSI BUMP PLUG 2000 PSI OVER ALSO TO CLOSE DV TOOL FLOATS HELD RIG DOWN CEMENTERS
19:30	2.50	22:00	12	RUN CASING & CEMENT	SET SLIPS WITH CAMERON SET SLIPS @ 190 20K OVER CUT OFF 5.5 CASING
22:00	4.00	02:00	14	NIPPLE DOWN BOP	NIPPLE DOWN
02:00	4.00	06:00	21	OPEN	CLEAN PITS (RIG RELEASE @ 6 AM)

**13-5D-35 BTR 5/14/2013 06:00 - 5/15/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,222.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	CLEAN AROUND CELLAR. JSA. CHECK PRESSURE. ND 11" NIGHT CAP. MAKE FINAL CUT AND DRESS 5-1/2" CSG. NU 7" 5K TBG HEAD. PRES TEST VOID AND SEALS. NU 7" NIGHT CAP. SET DEADMEN.



**13-5D-35 BTR 5/20/2013 06:00 - 5/21/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,222.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	RMOV	Rig Move	ROAD RIG TO LOCATION.
07:00	2.00	09:00	SRIG	Rig Up/Down	R/U RIG & EQUIPMENT. N/D WELLHEAD. N/U BOP. R/U FLOOR & EQUIPMENT. SDFN
09:00	21.00	06:00	LOCL	Lock Wellhead & Secure	CREW TRAVEL. WELL SECURE.

**13-5D-35 BTR 5/21/2013 06:00 - 5/22/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,222.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL. HOLD SAFETY MEETING.
07:00	1.00	08:00	DTIM	Downtime	WAIT ON FORK LIFT.
08:00	3.00	11:00	GOP	General Operations	SPOT CATWALK & PIPE RACKS. LOAD 362 JTS ON RACKS & TALLY TBG.
11:00	4.00	15:00	RUTB	Run Tubing	P/U 4-3/4 BIT, BIT SUB, 1 JT 2 7/8 TBG & XN- NIPPLE. RIH P/U TBG. TAG HIGH @ 7039'. DV TOOL @ 7069'.
15:00	2.00	17:00	CLN	Clean Out Hole	R/U POWER SWIVEL. BREAK CIRC. C/O CMT & D/O DV TOOL @ 7069'. CIRC WELL CLEAN. R/D SWIVEL.
17:00	2.00	19:00	RUTB	Run Tubing	CONTINUE RIH W/ BIT P/U TBG TO 8550'. SDFN.
19:00	11.00	06:00	LOCL	Lock Wellhead & Secure	CREW TRAVEL. WELL SECURE.

**13-5D-35 BTR 5/22/2013 06:00 - 5/23/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,222.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL. HOLD SAFETY MEETING.
07:00	2.00	09:00	RUTB	Run Tubing	FINISH RIH W/ 4-3/4 BIT P/U 2-7/8 TBG TO FLOAT COLLAR @ 11,132.
09:00	3.00	12:00	CLN	Clean Out Hole	CIRC WELL CLEAN. CIRC OUT +/- 65 BBLs OF DRILLING MUD.
12:00	7.00	19:00	PULT	Pull Tubing	POOH W/ BIT L/D 2-7/8 TBG. N/D BOP. N/U NITE CAP. SDFN.
19:00	11.00	06:00	LOCL	Lock Wellhead & Secure	WELL SECURE. CREW TRAVEL.

**13-5D-35 BTR 5/23/2013 06:00 - 5/24/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,222.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL. HOLD SAFETY MEETING.
07:00	1.00	08:00	SRIG	Rig Up/Down	R/D RIG & EQUIPMENT. CLEAN LOCATION. MOL.
08:00	22.00	06:00	LOCL	Lock Wellhead & Secure	WELL SECURE.

**13-5D-35 BTR 5/24/2013 06:00 - 5/25/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,222.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.00	08:00	LOCL	Lock Wellhead & Secure	WSI And Secured With NightCap. HES Logging Crew Arrive On Location, Hold Safety Meeting, Prep Logging Tool.
08:00	14.00	22:00	LOGG	Logging	P/U Junk Basket/Gauge Ring. RIH, Tagged Up At 11,104', Drilling Report Shows FC At 11,133', 29' Of Fill. POOH, P/U CBL Tool, Rih To PBTD, 11,104', Run Repeat Section From 11,104 - 10,800', Log Up Hole. Showed Good Bond From TD To 8,650', Fair From 8,650 - 4,000'. TOC 4,000'. Found Short Joints At 10,388 - 10,410' And 8,108 - 8,131'. Ran With Pressure. Pooh, RD Equipment, MOL.
22:00	8.00	06:00	LOCL	Lock Wellhead & Secure	WSI And Secured.

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 20G0005608
<b>1. TYPE OF WELL</b> Oil Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202		<b>8. WELL NAME and NUMBER:</b> 13-5D-35 BTR
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0609 FSL 0993 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWSW Section: 05 Township: 03.0S Range: 05.0W Meridian: U		<b>9. API NUMBER:</b> 43013516000000
<b>PHONE NUMBER:</b> 303 312-8134 Ext		<b>9. FIELD and POOL or WILDCAT:</b> ALTAMONT
<b>COUNTY:</b> DUCHESNE		<b>STATE:</b> UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION	OTHER: <input style="width: 100px;" type="text"/>
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <b>6/15/2013</b>	<input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> PRODUCTION START OR RESUME		
<input type="checkbox"/> SPUD REPORT Date of Spud:				
<input type="checkbox"/> DRILLING REPORT Report Date:				

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  
 This well received first production and first gas sales on 6/15/2013.

Accepted by the  
 Utah Division of  
 Oil, Gas and Mining  
**FOR RECORD ONLY**  
 June 19, 2013

<b>NAME (PLEASE PRINT)</b> Venessa Langmacher	<b>PHONE NUMBER</b> 303 312-8172	<b>TITLE</b> Senior Permit Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 6/17/2013	

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 20G0005608
<b>1. TYPE OF WELL</b> Oil Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202		<b>8. WELL NAME and NUMBER:</b> 13-5D-35 BTR
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0609 FSL 0993 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWSW Section: 05 Township: 03.0S Range: 05.0W Meridian: U		<b>9. API NUMBER:</b> 43013516000000
<b>PHONE NUMBER:</b> 303 312-8134 Ext		<b>9. FIELD and POOL or WILDCAT:</b> ALTAMONT
<b>COUNTY:</b> DUCHESNE		<b>STATE:</b> UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 6/30/2013	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  
 Attached is the June 2013 Drilling Activity for this well.

Accepted by the  
 Utah Division of  
 Oil, Gas and Mining  
**FOR RECORD ONLY**  
 July 11, 2013

<b>NAME (PLEASE PRINT)</b> Brady Riley	<b>PHONE NUMBER</b> 303 312-8115	<b>TITLE</b> Permit Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 7/9/2013	

**13-5D-35 BTR 6/7/2013 06:00 - 6/8/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,222.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	EQUIP SET. FRAC LINE SET. FILLING FRAC LINE.

**13-5D-35 BTR 6/8/2013 06:00 - 6/9/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,222.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	CHECK PRESSURE. ND NIGHT CAP. NU FRAC MANDREL, FRAC VALVES, AND FRAC HEAD. PRES TEST CSG, VALVES, AND FB EQUIP. FILLING FRAC LINE.

**13-5D-35 BTR 6/9/2013 06:00 - 6/10/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,222.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	FINISH FILLING FRAC LINE

**13-5D-35 BTR 6/10/2013 06:00 - 6/11/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,222.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	INSTALL HANDRAILS AND BACKSIDE MANIFOLD. HEAT FRAC LINE.

**13-5D-35 BTR 6/11/2013 06:00 - 6/12/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,222.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.00	08:00	SRIG	Rig Up/Down	HSM. MIRU SLB.
08:00	2.00	10:00	PFRT	Perforating	MIRU SLB WITH 5K LUB. PU GUNS FOR STG 1. OPEN W/ 200 PSI. RIH AND CORRELATE TO SJ AT 7730+'-7752+'. RUN DOWN AND PERF CR-4 AND CR-4A FORM 10,723'-10.999' WITH 45 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. SHUT WELL IN WITH 1300 PSI. SECURE WELL.
10:00	6.00	16:00	SRIG	Rig Up/Down	MIRU HES FRAC FLEET. PRIME UP AND PRES TEST IRON.
16:00	14.00	06:00	LOCL	Lock Wellhead & Secure	WELL SHUT IN AND SECURE.

**13-5D-35 BTR 6/12/2013 06:00 - 6/13/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,222.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.00	06:00	LOCL	Lock Wellhead & Secure	HES Crew On Location At 0400 Hrs., Prime Chemical And Fluid Pumps, Pressure Test To 9000 Psi., Ran QC On Fluid, Looks Good.
06:00	0.00	06:00	SMTG	Safety Meeting	Safety Meeting. Talk About Smoking Area, PPE, Escape And Mustering Areas, Communication, And Red Zone.



**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.59	06:35	FRAC	Frac. Job	<p>Frac Stage 1. Fluid System: Hybor G 16. Chemical Tracer In Sand Stages. Open Well, 1,335 Psi. ICP. BrokeDown At 10.1 Bpm And 4,858 Psi.. Pump 3900 Gals. 15% HCL And 90 Bio Balls, Attempt BallOut. Let Balls Fall. Get Stabilized Injection Of 62.6 Bpm And 6,489 Psi., Get ISIP, 3,816 Psi.. 0.79 Psi./Ft. F.G.. 30/45 Holes.</p> <p>Con't With SlickWater Pad, 48,751 Gals..</p> <p>Stage Into Hybor Pad, 63.1 Bpm At 5,724 Psi..</p> <p>On Perfs, 65.2 Bpm At 6,234 Psi., 12,190 Gals.</p> <p>Stage Into 2.0# 20/40 CRC Prop, 65.1 Bpm At 6,288 Psi..</p> <p>On Perfs, 74.2 Bpm At 6,094 Psi., 11,793 Gals.</p> <p>Stage Into 3.0# 20/40 CRC Prop, 74.2 Bpm At 6,129 Psi..</p> <p>On Perfs, 74.3 Bpm At 6,584 Psi., 16,204 Gals.</p> <p>Stage Into 3.5# 20/40 CRC Prop, 70.7 Bpm At 6,680 Psi..</p> <p>On Perfs, 70.6 Bpm At 7,538 Psi., 4,034 Gals.</p> <p>Cut Sand In 3.5#, Sharp Net Increase. 54% Of Designed Sand Pumped.</p> <p>Stage Into Flush, Flush 15 Bbls. Over Bottom Perf..</p> <p>Get ISDP, 4,146 Psi.. 0.82 Psi./Ft. F.G.. WSI And Secured.</p> <p>Total 20/40 CRC Prop - 81,100#</p> <p>Total Clean - 120,353 Gals.. 2,866 Bbls..</p> <p>Produced Water - 74,056 Gals..</p> <p>2% KCL - 44,221 Gals..</p> <p>BWTR - 2,945 Bbls.</p> <p>Max. Rate - 74. Bpm</p> <p>Avg. Rate - 69.5 Bpm</p> <p>Max. Psi. - 7,747 Psi.</p> <p>Avg. Psi. - 6,667 Psi.</p>
06:35	0.08	06:40	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CBP Plug Assembly. Equalize To Well Pressure.
06:40	1.33	08:00	PFRT	Perforating	<p>RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 120 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To HES Combo RBT/RMTE Log Dated 05-24-2013.</p> <p>Found And Correlated To Short Joint At 10,388 - 10,410'.</p> <p>Drop Down To Depth, Set CBP At 10,718'. 3,400 Psi..</p> <p>Perforate Stage 2 CR-4/CR-3 Zone, 10,433 - 10,698'. 45 Holes. 450 Psi..</p> <p>POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.</p>
08:00	0.09	08:05	GOP	General Operations	Well Turned Over To HES. Pressure Test To 8500#. Equalize, Open To Well.
08:05	1.00	09:05	FRAC	Frac. Job	<p>Frac Stage 2. Fluid System: Hybor G 16. Chemical Tracer In Sand Stages. Open Well, 930 Psi. ICP. BrokeDown At 10.3 Bpm And 4,626 Psi.. Pump 3900 Gals. 15% HCL And 90 Bio Balls, Attempt BallOut. Let Balls Fall. Get Stabilized Injection Of 74.7 Bpm And 6,031 Psi., Get ISIP, 3,529 Psi.. 0.77 Psi./Ft. F.G.. 31/45 Holes.</p> <p>Con't With SlickWater Pad, 48,359 Gals..</p> <p>Stage Into Hybor Pad, 74.2 Bpm At 5,895 Psi..</p> <p>On Perfs, 74.3 Bpm At 6,185 Psi., 12,012 Gals.</p> <p>Stage Into 2.0# 20/40 CRC Prop, 74.3 Bpm At 6,196 Psi..</p> <p>On Perfs, 74.5 Bpm At 5,740 Psi., 11,374 Gals.</p> <p>Stage Into 3.0# 20/40 CRC Prop, 74.5 Bpm At 5,703 Psi..</p> <p>On Perfs, 74.4 Bpm At 6,342 Psi., 14,774 Gals.</p> <p>Cut Sand In 3#, Sharp Increase In Net. 41% Of Designed Sand Pumped.</p> <p>Stage Into Flush, Flush 15 Bbls. Over Bottom Perf..</p> <p>Get ISDP, 4,209 Psi.. 0.84 Psi./Ft. F.G.. WSI And Secured.</p> <p>Total 20/40 CRC Prop - 62,220#</p> <p>Total Clean - 113,164 Gals.. 2,694 Bbls..</p> <p>Produced Water - 72,997 Gals..</p> <p>2% KCL - 38,160 Gals..</p> <p>BWTR - 2,752 Bbls.</p> <p>Max. Rate - 74.5 Bpm</p> <p>Avg. Rate - 74.3 Bpm</p> <p>Max. Psi. - 6,823 Psi.</p> <p>Avg. Psi. - 6,039 Psi.</p>
09:05	0.17	09:15	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CBP Plug Assembly. Equalize To Well Pressure.
09:15	1.25	10:30	PFRT	Perforating	<p>RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 120 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To HES Combo RBT/RMTE Log Dated 05-24-2013.</p> <p>Found And Correlated To Short Joint At 8,108 - 8,131'.</p> <p>Drop Down To Depth, Set CBP At 10,428'. 3,300 Psi..</p> <p>Perforate Stage 3 CR-2 Zone, 10,111 - 10,408'. 45 Holes. 1,200 Psi..</p> <p>POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.</p>
10:30	0.08	10:35	GOP	General Operations	Well Turned Over To HES. Pressure Test To 8500#. Equalize, Open To Well.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
10:35	1.17	11:45	FRAC	Frac. Job	<p>Frac Stage 3. Fluid System: Hybor G 16. Chemical Tracer In Sand Stages. Open Well, 1,168 Psi. ICP. BrokeDown At 10.1 Bpm And 3,920 Psi.. Pump 3900 Gals. 15% HCL And 90 Bio Balls, Attempt BallOut. Let Balls Fall. Get Stabilized Injection Of 74.5 Bpm And 5,594 Psi., Get ISIP, 3,065 Psi.. 0.74 Psi./Ft. F.G.. 31/45 Holes.</p> <p>Con't With SlickWater Pad, 48,839 Gals..</p> <p>Stage Into Hybor Pad, 74.8 Bpm At 5,228 Psi..</p> <p>On Perfs, 74.5 Bpm At 5,535 Psi., 12,158 Gals.</p> <p>Stage Into 2.0# 20/40 CRC Prop, 74.5 Bpm At 5,552 Psi..</p> <p>On Perfs, 74.5 Bpm At 5,063 Psi., 11,136 Gals.</p> <p>Stage Into 3.0# 20/40 CRC Prop, 74.5 Bpm At 5,037 Psi..</p> <p>On Perfs, 74.4 Bpm At 4,850 Psi., 17,254 Gals.</p> <p>Stage Into 3.5# 20/40 CRC Prop, 74.3 Bpm At 4,972 Psi..</p> <p>On Perfs, 74.3 Bpm At 4,919 Psi., 15,243 Gals.</p> <p>Stage Into 4.0# 20/40 CRC Prop, 74.2 Bpm At 4,936 Psi..</p> <p>On Perfs, 75.8 Bpm At 5,316 Psi., 7,570 Gals.</p> <p>Stage Into Flush, Flush 15 Bbls. Over Bottom Perf..</p> <p>Get ISDP, 3,702 Psi.. 0.80 Psi./Ft. F.G.. WSI And Secured.</p> <p>Total 20/40 CRC Prop - 150,300#</p> <p>Total Clean - 136,180 Gals.. 3,290 Bbls..</p> <p>Produced Water - 72,837 Gals..</p> <p>2% KCL - 63,361 Gals..</p> <p>BWTR - 3,439 Bbls.</p> <p>Max. Rate - 74.9 Bpm</p> <p>Avg. Rate - 74.4 Bpm</p> <p>Max. Psi. - 5,556 Psi.</p> <p>Avg. Psi. - 5,167 Psi.</p>
11:45	0.08	11:50	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CBP Plug Assembly. Equalize To Well Pressure.
11:50	1.25	13:05	PFRT	Perforating	<p>RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 120 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To HES Combo RBT/RMTE Log Dated 05-24-2013.</p> <p>Found And Correlated To Short Joint At 8,108 - 8,131'.</p> <p>Drop Down To Depth, Set CBP At 10,102'. 2,950 Psi..</p> <p>Perforate Stage 4 CR-2/Wasatch Zone, 9,801 - 10,082'. 45 Holes. 2,250 Psi..</p> <p>POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.</p>
13:05	0.58	13:40	GOP	General Operations	Well Turned Over To HES. Pressure Test To 8500#. Equalize, Open To Well.
13:40	1.08	14:45	FRAC	Frac. Job	<p>Frac Stage 4. Fluid System: Hybor G 16. Chemical Tracer In Sand Stages. Open Well, 2,028 Psi. ICP. BrokeDown At 9.7 Bpm And 3,228 Psi.. Pump 3900 Gals. 15% HCL And 90 Bio Balls, Attempt BallOut. Let Balls Fall. Get Stabilized Injection Of 74.5 Bpm And 4,970 Psi., Get ISIP, 2,786 Psi.. 0.72 Psi./Ft. F.G.. 43/45 Holes.</p> <p>Con't With SlickWater Pad, 49,263 Gals..</p> <p>Stage Into Hybor Pad, 73.9 Bpm At 4,497 Psi..</p> <p>On Perfs, 74.3 Bpm At 4,905 Psi., 12,158 Gals.</p> <p>Stage Into 2.0# 20/40 White Prop, 74.3 Bpm At 4,935 Psi..</p> <p>On Perfs, 74.2 Bpm At 4,487 Psi., 10,827 Gals.</p> <p>Stage Into 3.0# 20/40 White Prop, 74.2 Bpm At 4,456 Psi..</p> <p>On Perfs, 74.1 Bpm At 4,311 Psi., 15,639 Gals.</p> <p>Stage Into 3.5# 20/40 White Prop, 74.1 Bpm At 4,364 Psi..</p> <p>On Perfs, 74.3 Bpm At 4,308 Psi., 11,744 Gals.</p> <p>Stage Into 4.0# 20/40 White Prop, 74.3 Bpm At 4,321 Psi..</p> <p>On Perfs, 74.1 Bpm At 4,195 Psi., 12,190 Gals.</p> <p>Stage Into Flush, Flush 15 Bbls. Over Bottom Perf..</p> <p>Get ISDP, 3,366 Psi.. 0.78 Psi./Ft. F.G.. WSI And Secured.</p> <p>Total 20/40 White Prop - 150,100#</p> <p>Total Clean - 137,163 Gals.. 3,266 Bbls..</p> <p>Produced Water - 72,649 Gals..</p> <p>2% KCL - 62,562 Gals..</p> <p>BWTR - 3,425 Bbls.</p> <p>Max. Rate - 74.6 Bpm</p> <p>Avg. Rate - 74.2 Bpm</p> <p>Max. Psi. - 4,953 Psi.</p> <p>Avg. Psi. - 4,497 Psi.</p>
14:45	0.17	14:55	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CBP Plug Assembly. Equalize To Well Pressure.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
14:55	1.17	16:05	PFRT	Perforating	RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 120 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To HES Combo RBT/RMTE Log Dated 05-24-2013. Found And Correlated To Short Joint At 8,108 - 8,131'. Drop Down To Depth, Set CBP At 9,777'. 2,800 Psi.. Perforate Stage 5 CR-1A Zone, 9,492 - 9,757'. 45 Holes. 2,050 Psi.. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.
16:05	0.09	16:10	GOP	General Operations	Well Turned Over To HES. Pressure Test To 8500#. Equalize, Open To Well.
16:10	1.16	17:20	FRAC	Frac. Job	Frac Stage 5. Fluid System: Hybor G 16 Pumped Chemical Tracer In Sand Stages. Open Well, 1,913 Psi. ICP. BrokeDown At 10.6 Bpm And 2,423 Psi.. Pump 3900 Gals. 15% HCL And 90 Bio Balls, Attempt BallOut. Let Balls Fall. Get Stabilized Injection Of 74.5 Bpm And 3,992 Psi., Get ISIP, 2,226 Psi.. 0.67 Psi./Ft. F.G.. 41/45 Holes. Con't With SlickWater Pad, 48,388 Gals.. Stage Into .75# 100 Mesh Pad, 74.3 Bpm At 3,810 Psi.. On Perfs, 75.0 Bpm At 4,091 Psi., 18,890 Gals. Stage Into 1.0# 20/40 White Prop, 75.0 Bpm At 4,190 Psi.. On Perfs, 75.2 Bpm At 4,000 Psi., 10,447 Gals. Stage Into 2.0# 20/40 White Prop, 75.3 Bpm At 3,960 Psi.. On Perfs, 75.0 Bpm At 3,691 Psi., 10,469 Gals. Stage Into 3.0# 20/40 White Prop, 75.0 Bpm At 3,677 Psi.. On Perfs, 74.7 Bpm At 3,479 Psi., 13,111 Gals. Stage Into 3.5# 20/40 White Prop, 74.7 Bpm At 3,470 Psi.. On Perfs, 74.6 Bpm At 3,361 Psi., 11,379 Gals. Stage Into 4.0# 20/40 White Prop, 74.6 Bpm At 3,337 Psi.. On Perfs, 74.5 Bpm At 3,255 Psi., 11,774 Gals. Stage Into Flush, Flush 15 Bbls. Over Bottom Perf.. Get ISDP, 2,547 Psi.. 0.70 Psi./Ft. F.G.. WSI And Secured. 100 Mesh - 14,000# Total 20/40 White Prop - 150,400# Total Clean - 149,137 Gals.. 3,551 Bbls.. Produced Water - 71,011 Gals. 2% KCL - 76,070 Gals.. BWTR - 3,731 Bbls. Max. Rate - 76.7 Bpm Avg. Rate - 74.5 Bpm Max. Psi. - 4,195 Psi. Avg. Psi. - 3,745 Psi.
17:20	0.17	17:30	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CBP Plug Assembly. Equalize To Well Pressure.
17:30	1.17	18:40	PFRT	Perforating	RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 120 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To HES Combo RBT/RMTE Log Dated 05-24-2013. Found And Correlated To Short Joint At 8,108 - 8,131'. Drop Down To Depth, Set CBP At 9,487'. 1,650 Psi.. Perforate Stage 6 CR-1/UteLand Butte/Castle Peak Zone, 9,277 - 9,467'. 45 Holes. 1,550 Psi.. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.
18:40	11.33	06:00	LOCL	Lock Wellhead & Secure	WSI And Secured. SDFD.

**13-5D-35 BTR 6/13/2013 06:00 - 6/14/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,222.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.25	07:15	LOCL	Lock Wellhead & Secure	HES Crew On Location At 0400 Hrs., Prime Chemical And Fluid Pumps, Pressure Test To 9000 Psi., Ran QC On Fluid, Looks Good.
07:15	0.34	07:35	SMTG	Safety Meeting	Safety Meeting. Talk About Smoking Area, PPE, Escape And Mustering Areas, Communication, And Red Zone.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
07:35	1.08	08:40	FRAC	Frac. Job	<p>Frac Stage 6. Fluid System: Hybor G 16 Pumped Chemical Tracer In Sand Stages. Open Well, 113 Psi. ICP. BrokeDown At 10.5 Bpm And 1,850 Psi.. Pump 3900 Gals. 15% HCL And 90 Bio Balls, Attempt BallOut. Let Balls Fall. Get Stabilized Injection Of 74.5 Bpm And 4,047 Psi., Get ISIP, 2,255 Psi.. 0.68 Psi./Ft. F.G.. 45/45 Holes.</p> <p>Con't With SlickWater Pad, 49,080 Gals..</p> <p>Stage Into .75# 100 Mesh Pad, 74.5 Bpm At 3,813 Psi..</p> <p>On Perfs, 74.7 Bpm At 4,065 Psi., 19,370 Gals.</p> <p>Stage Into 1.0# 20/40 White Prop, 74.5 Bpm At 4,122 Psi..</p> <p>On Perfs, 74.3 Bpm At 3,985 Psi., 10,147 Gals.</p> <p>Stage Into 2.0# 20/40 White Prop, 74.2 Bpm At 3,965 Psi..</p> <p>On Perfs, 74.0 Bpm At 3,662 Psi., 10,059 Gals.</p> <p>Stage Into 3.0# 20/40 White Prop, 74.0 Bpm At 3,630 Psi..</p> <p>On Perfs, 74.3 Bpm At 3,533 Psi., 13,654 Gals.</p> <p>Stage Into 3.5# 20/40 White Prop, 74.3 Bpm At 3,454 Psi..</p> <p>On Perfs, 74.4 Bpm At 3,431 Psi., 11,154 Gals.</p> <p>Stage Into 4.0# 20/40 White Prop, 74.4 Bpm At 3,433 Psi..</p> <p>On Perfs, 74.2 Bpm At 3,396 Psi., 10,198 Gals.</p> <p>Stage Into Flush, Flush 15 Bbls. Over Bottom Perf..</p> <p>Get ISDP, 2,608 Psi.. 0.72 Psi./Ft. F.G.. WSI And Secured.</p> <p>100 Mesh - 14,000#</p> <p>Total 20/40 White Prop - 148,900#</p> <p>Total Clean - 149,943 Gals.. 3,570 Bbls..</p> <p>Produced Water - 71,674 Gals.</p> <p>2% KCL - 76,382 Gals..</p> <p>BWTR - 3,732 Bbls.</p> <p>Max. Rate - 74.8 Bpm</p> <p>Avg. Rate - 74.3 Bpm</p> <p>Max. Psi. - 4,128 Psi.</p> <p>Avg. Psi. - 3,736 Psi.</p>
08:40	0.17	08:50	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CBP Plug Assembly. Equalize To Well Pressure.
08:50	1.08	09:55	PFRT	Perforating	<p>RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 120 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To HES Combo RBT/RMTE Log Dated 05-24-2013.</p> <p>Found And Correlated To Short Joint At 8,108 - 8,131'.</p> <p>Drop Down To Depth, Set CBP At 9,268'. 1,700 Psi..</p> <p>Perforate Stage 7 Castle Peak Zone, 8,985 - 9,248'. 45 Holes. 1,200 Psi..</p> <p>POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.</p>
09:55	0.08	10:00	GOP	General Operations	Well Turned Over To HES. Pressure Test To 8500#. Equalize, Open To Well.
10:00	1.17	11:10	FRAC	Frac. Job	<p>Frac Stage 7. Fluid System: Hybor G 16 Pumped Chemical Tracer In Sand Stages. Open Well, 800 Psi. ICP. BrokeDown At 10.5 Bpm And 1,641 Psi.. Pump 3900 Gals. 15% HCL And 90 Bio Balls, Attempt BallOut. Let Balls Fall. Get Stabilized Injection Of 74.4 Bpm And 3,352 Psi., Get ISIP, 1,379 Psi.. 0.59 Psi./Ft. F.G.. 45/45 Holes.</p> <p>Con't With SlickWater Pad, 48,294 Gals..</p> <p>Stage Into .75# 100 Mesh Pad, 74.0 Bpm At 3,160 Psi..</p> <p>On Perfs, 74.1 Bpm At 3,345 Psi., 18,694 Gals.</p> <p>Stage Into 1.0# 20/40 White Prop, 74.7 Bpm At 3,327 Psi..</p> <p>On Perfs, 74.0 Bpm At 3,233 Psi., 9,888 Gals.</p> <p>Stage Into 2.0# 20/40 White Prop, 74.0 Bpm At 3,230 Psi..</p> <p>On Perfs, 74.0 Bpm At 2,940 Psi., 9,863 Gals.</p> <p>Stage Into 3.0# 20/40 White Prop, 73.8 Bpm At 2,912 Psi..</p> <p>On Perfs, 75.0 Bpm At 2,677 Psi., 14,617 Gals.</p> <p>Stage Into 3.5# 20/40 White Prop, 74.4 Bpm At 2,562 Psi..</p> <p>On Perfs, 74.7 Bpm At 2,548 Psi., 10,819 Gals.</p> <p>Stage Into 4.0# 20/40 White Prop, 74.7 Bpm At 2,566 Psi..</p> <p>On Perfs, 74.6 Bpm At 2,433 Psi., 15,114 Gals.</p> <p>Stage Into Flush, Flush 15 Bbls. Over Bottom Perf..</p> <p>Get ISDP, 1,983 Psi.. 0.67 Psi./Ft. F.G.. WSI And Secured.</p> <p>100 Mesh - 14,300#</p> <p>Total 20/40 White Prop - 152,200#</p> <p>Total Clean - 150,764 Gals.. 3,590 Bbls..</p> <p>Produced Water - 69,712 Gals.</p> <p>2% KCL - 78,995 Gals..</p> <p>BWTR - 3,798 Bbls.</p> <p>Max. Rate - 75.2 Bpm</p> <p>Avg. Rate - 74.2 Bpm</p> <p>Max. Psi. - 3,377 Psi.</p> <p>Avg. Psi. - 2,979 Psi.</p>

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
11:10	0.25	11:25	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up CBP Plug Assembly. Equalize To Well Pressure.
11:25	0.92	12:20	PFRT	Perforating	RIH With 3 1/8" Sinker Bar And CBP Plug Assembly. Correlating To HES Combo RBT/RMTE Log Dated 05-24-2013. Found And Correlated To Short Joint At 8,108 - 8,131'. Drop Down To Depth, Set CBP At 9,268'. 850 Psi.. Bleed Pressure Off Well. POOH. LayDown Tools, WSI And Secured.
12:20	2.17	14:30	SRIG	Rig Up/Down	RigDown WireLine And Frac Crews, MOL.
14:30	15.50	06:00	LOCL	Lock Wellhead & Secure	WSI And Secured. Batch Water. Moving Tanks. SDFD.

**13-5D-35 BTR 6/14/2013 06:00 - 6/15/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,222.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL. HOLD SAFETY MEETING.
07:00	1.00	08:00	SRIG	Rig Up/Down	MIRU RIG & EQUIPMENT.
08:00	3.00	11:00	BOPI	Install BOP's	SIWP- 0. N/D FRAC TREE. N/U BOP & HYDRILL. R/U FLOOR & EQUIPMENT. SPOT CATWALK & PIPE RACKS. LOAD 362 JTS ON RACKS & TALLY TBG.
11:00	3.50	14:30	RUTB	Run Tubing	P/U 4-3/4 BIT, POBS, 1 JT 2-7/8 TBG & 2.31 XN- NIPPLE. RIH TO 4770'. ATTEMPT TO PUMP DOWN TBG, PRESSURE UP TO 850 PSI. NO BLEED OFF.
14:30	2.00	16:30	PULT	Pull Tubing	POOH W/ BIT. PLUGGED W/ 2' OF DRILLING MUD & RUST OFF OF TBG.
16:30	3.50	20:00	RUTB	Run Tubing	RIH W/ BIT TO 4770' W/ TBG OUT OF DERRICK. CONTINUE RIH P/U TBG TO KILL PLUG @ 8950'. FLUSH TBG. SDFN.
20:00	10.00	06:00	LOCL	Lock Wellhead & Secure	WELL SECURE. CREW TRAVEL.

**13-5D-35 BTR 6/15/2013 06:00 - 6/16/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,222.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL. HOLD SAFETY MEETING.
07:00	7.00	14:00	DOPG	Drill Out Plugs	R/U SWIVEL. BREAK CIRC. TEST BOPE & CIRC EQUIPMENT TO 2500 PSI, HELD. D/O KILL PLUG @ 8950'. FCP- 0.  SWIVEL IN HOLE. TAG SAND @ 9258'. C/O SAND & D/O CBP @ 9268'. FCP- 0.  SWIVEL IN HOLE. TAG SAND @ 8460'. C/O SAND & D/O CBP @ 9487'. FCP- 0.  SWIVEL IN HOLE. TAG SAND @ 9769'. C/O SAND & D/O CBP @ 9777'. FCP- 450 ON 32/64 CHOKE.  SWIVEL IN HOLE. TAG SAND @ 10,083'. C/O SAND & D/O CBP @ 10,102'. FCP- 1100 ON 32/64 CHOKE.  SWIVEL IN HOLE. TAG SAND @ 10,332'. C/O SAND & D/O CBP @ 10,366'. FCP- 1200 ON 32/64 CHOKE.  SWIVEL IN HOLE. TAG SAND @ 10,622'. C/O SAND & D/O CBP @ 10,718'. FCP- 1350 ON 32/64 CHOKE.  SWIVEL IN HOLE, TAG SAND @ 11,113'. C/O TO FLOAT COLLAR @ 11,132'. D/O F/C. D/O CMT TO 11,187' PBTD. JT 351 ALL THE WAY IN. CIRC WELL CLEAN. R/D SWIVEL.
14:00	1.50	15:30	PULT	Pull Tubing	PULL ABOVE PERFS L/D 2-7/8 TBG TO 8907' & LAND TBG. 279 JTS TOTAL IN HOLE.
15:30	1.00	16:30	IWHD	Install Wellhead	R/D FLOOR. N/D BOPE. N/U WELLHEAD. DROP BALL DOWN TBG & PUMPED BIT OFF. R/U TBG TO SALES LINE. TURN OVER TO FLOW BACK.



Form 3160-4  
(August 2007)UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other b. Type of Completion <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr. Other _____				5. Lease Serial No. 20G0005608	
2. Name of Operator BILL BARRETT CORPORATION    Contact: CHRISTINA HIRTLE E-Mail: chirtler@billbarrettcorp.com				6. If Indian, Allottee or Tribe Name	
3. Address    1099 18TH STREET SUITE 2300    3a. Phone No. (include area code) DENVER, CO 80202    Ph: 303-312-8597				7. Unit or CA Agreement Name and No.	
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface    SWSW 609FSL 993FWL At top prod interval reported below    SWSW 788FSL 724FWL At total depth    SWSW 763FSL 694FWL				8. Lease Name and Well No. 13-5D-35 BTR	
14. Date Spudded 04/10/2013				10. Field and Pool, or Exploratory ALTAMONT	
15. Date T.D. Reached 05/11/2013				11. Sec., T., R., M., or Block and Survey or Area    Sec 5 T3S R5W Mer UBM	
16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 06/15/2013				12. County or Parish DUCHESNE	
17. Elevations (DF, KB, RT, GL)* 6159 GL				13. State UT	
18. Total Depth:    MD    11229 TVD    11205		19. Plug Back T.D.:    MD    11134 TVD    11110		20. Depth Bridge Plug Set:    MD TVD	
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) TRI,CBL,MUD				22. Was well cored? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Directional Survey? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (Submit analysis)	

## 23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17.500	16.000 COND	65.0	0	80	80				
12.625	9.625 J-55	36.0	0	4024	4024	940	453		
5.500	5.500 P110	17.0	0	11229	11224	1170	286	7604	

## 24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.875	8908							

## 25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) GREEN RIVER	8985	9757	8985 TO 9757	0.380	135	OPEN
B) WASATCH	9801	10999	9801 TO 10999	0.380	180	OPEN
C)						
D)						

## 26. Perforation Record

## 27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
8985 TO 9757	GREEN RIVER SEE ATTACHED STAGES 5-7
9801 TO 10999	WASATCH SEE ATTACHED STAGES 1-4

## 28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
06/15/2013	06/18/2013	24		822.0	1896.0	340.0	52.0		FLows FROM WELL
Choke Size 28/64	Tbg. Press. Flwg. 1675 SI	Csg. Press. 2750.0	24 Hr. Rate 	Oil BBL 822	Gas MCF 1896	Water BBL 340	Gas:Oil Ratio 2307	Well Status POW	

## 28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate 	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #213293 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\*

RECEIVED: Jul. 15, 2013

## 28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

## 28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

29. Disposition of Gas(*Sold, used for fuel, vented, etc.*)  
SOLD

## 30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

## 31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				GREEN RIVER MAHOGANY TGR3 DOUGLAS CREEK BLACK SHALE CASTLE PEAK UTELAND BUTTE WASATCH	5208 6135 7402 8206 8842 8990 9361 9761

## 32. Additional remarks (include plugging procedure):

TOC was calculated by CBL. Conductor cemented with grout. Attached is Treatment data, Logs(CBL will be mailed due to file size) and End of Well Report. First gas sales were on 6/15/2013.

## 33. Circle enclosed attachments:

- |   |                    |               |                       |
|---|--------------------|---------------|-----------------------|
| 1. Electrical/Mechanical Logs (1 full set req'd.)     | 2. Geologic Report | 3. DST Report | 4. Directional Survey |
| 5. Sundry Notice for plugging and cement verification | 6. Core Analysis   | 7 Other:      |                       |

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

**Electronic Submission #213293 Verified by the BLM Well Information System.  
For BILL BARRETT CORPORATION, sent to the Vernal**

Name(*please print*) CHRISTINA HIRTLER

Title ADMINISTRATIVE ASSISTANT

Signature \_\_\_\_\_ (Electronic Submission)

Date 07/11/2013

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**\*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\***

**RECEIVED: Jul. 15, 2013**

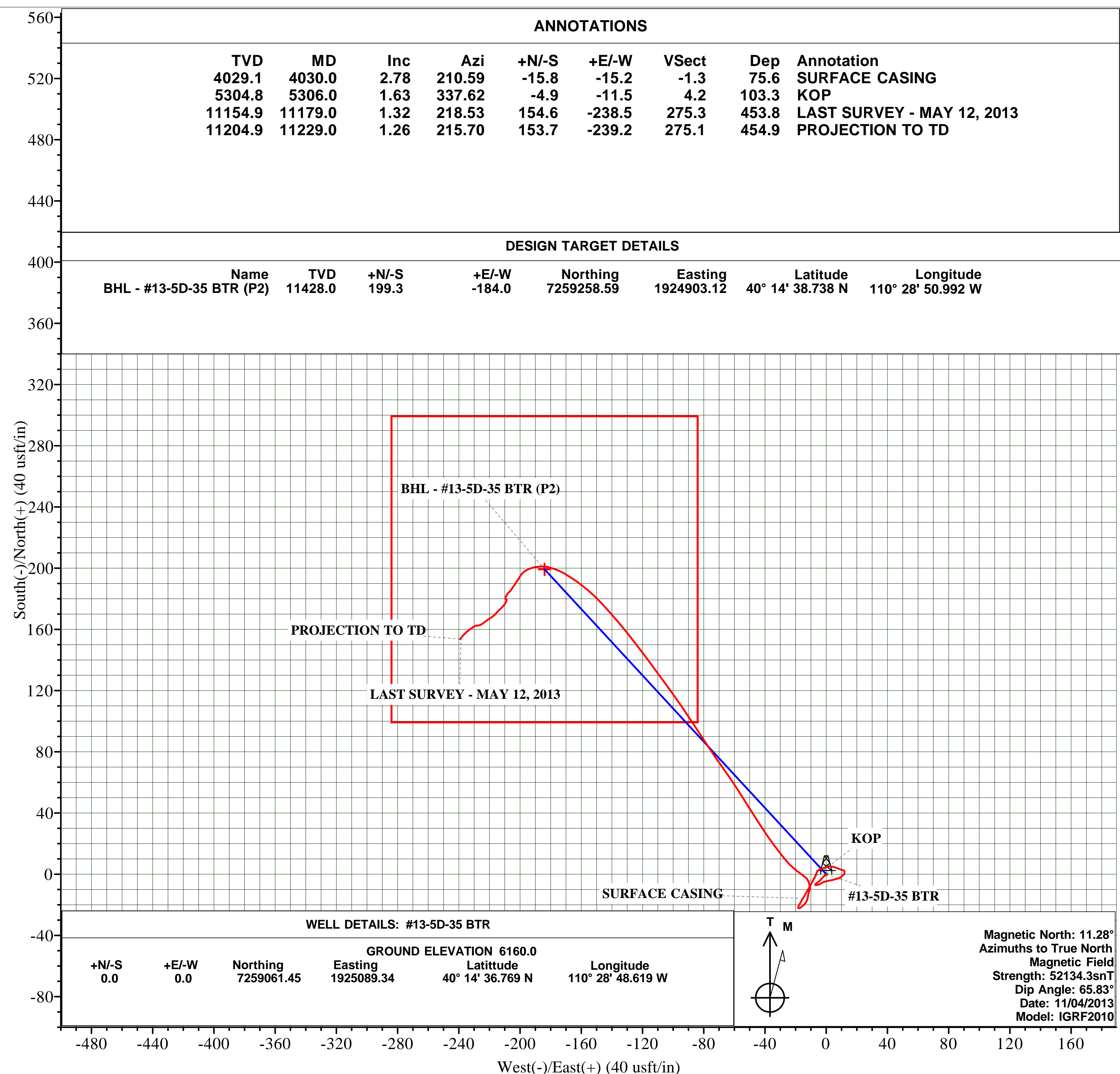
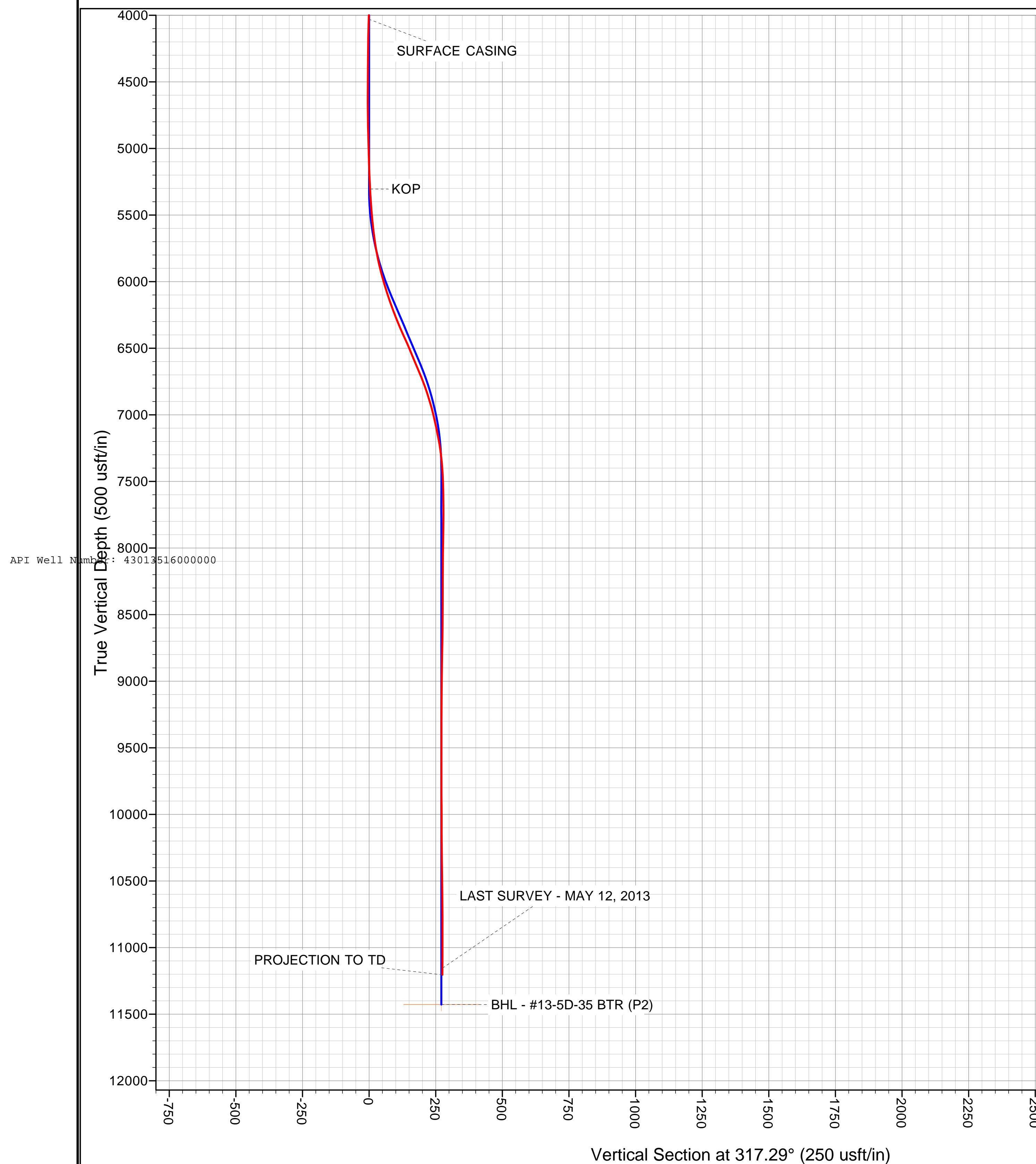
**13-5D-35 BTR Completion Report Continued\***

<b>44. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC. (cont.)</b>					
<b>AMOUNT AND TYPE OF MATERIAL</b>					
<u><i>Stage</i></u>	<u><i>BBLS Slurry</i></u>	<u><i>lbs 100 Common Mesh</i></u>	<u><i>lbs 20/40 CRC</i></u>	<u><i>lbs 20/40 White Sand</i></u>	<u><i>gal 15% HCl Acid</i></u>
1	2850		81100		3964
2	2696		62200		3985
3	3272		150300		3828
4	3255		59440	90660	3907
5	3529	14000		150400	4111
6	3537	14000		148900	3900
7	3590	14360		152280	4117

\*Depth intervals for frac information same as perforation record intervals.



Project: UTAH (DUCHESNE COUNTY - NAD 83)  
Site: SEC. 5 T3S R5W  
Well: #13-5D-35 BTR  
Wellbore: JOB # 2009-180  
Design: FINAL SURVEYS



## Survey Report



<b>Company:</b>	BILL BARRETT CORPORATION	<b>Local Co-ordinate Reference:</b>	Well #13-5D-35 BTR
<b>Project:</b>	UTAH (DUCHESNE COUNTY - NAD 83)	<b>TVD Reference:</b>	KB @ 6175.0usft (PATTERSON 506)
<b>Site:</b>	SEC. 5 T3S R5W	<b>MD Reference:</b>	KB @ 6175.0usft (PATTERSON 506)
<b>Well:</b>	#13-5D-35 BTR	<b>North Reference:</b>	True
<b>Wellbore:</b>	JOB # 2009-180	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	FINAL SURVEYS	<b>Database:</b>	EDM 5000.1 Single User Db

<b>Project</b>	UTAH (DUCHESNE COUNTY - NAD 83)		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Utah Central Zone		Using geodetic scale factor

Site	SEC. 5 T3S R5W				
Site Position:		Northing:	7,259,061.45 usft	Latitude:	40° 14' 36.769 N
From:	Lat/Long	Easting:	1,925,089.34 usft	Longitude:	110° 28' 48.619 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"	Grid Convergence:	0.65 °

Well	#13-5D-35 BTR					
Well Position	+N/-S	0.0 usft	Northing:	7,259,061.45 usft	Latitude:	40° 14' 36.769 N
	+E/-W	0.0 usft	Easting:	1,925,089.34 usft	Longitude:	110° 28' 48.619 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	6,160.0 usft

<b>Wellbore</b>	JOB # 2009-180				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	11/04/2013	11.28	65.83	52,134

<b>Design</b>	FINAL SURVEYS				
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>	
	0.0	0.0	0.0	317.29	

<b>Survey Program</b>	<b>Date</b>	12/05/2013			
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
191.0	11,229.0	FINAL SURVEYS (JOB # 2009-180)	MWD	MWD - Standard	

<b>Survey</b>										
<b>Measured Depth (usft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (usft)</b>	<b>Subsea Depth (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Vertical Section (usft)</b>	<b>Dogleg Rate (°/100usft)</b>	<b>Build Rate (°/100usft)</b>	<b>Turn Rate (°/100usft)</b>
0.0	0.00	0.00	0.0	6,175.0	0.0	0.0	0.0	0.00	0.00	0.00
191.0	0.79	228.90	191.0	5,984.0	-0.9	-1.0	0.0	0.41	0.41	0.00
283.0	0.70	223.89	283.0	5,892.0	-1.7	-1.9	0.0	0.12	-0.10	-5.45
374.0	0.57	216.15	374.0	5,801.0	-2.5	-2.5	-0.1	0.17	-0.14	-8.51
466.0	0.88	226.96	466.0	5,709.0	-3.3	-3.3	-0.2	0.37	0.34	11.75
557.0	0.66	221.60	557.0	5,618.0	-4.2	-4.2	-0.2	0.25	-0.24	-5.89
649.0	0.83	234.43	649.0	5,526.0	-5.0	-5.1	-0.2	0.26	0.18	13.95
741.0	0.79	233.12	740.9	5,434.1	-5.7	-6.1	-0.1	0.05	-0.04	-1.42
832.0	0.92	229.69	831.9	5,343.1	-6.6	-7.2	0.0	0.15	0.14	-3.77
958.0	0.75	77.37	957.9	5,217.1	-7.0	-7.1	-0.3	1.29	-0.13	-120.89
1,053.0	0.79	101.28	1,052.9	5,122.1	-7.0	-5.9	-1.2	0.34	0.04	25.17
1,148.0	1.49	57.07	1,147.9	5,027.1	-6.5	-4.2	-1.9	1.13	0.74	-46.54
1,244.0	1.32	63.49	1,243.9	4,931.1	-5.3	-2.2	-2.4	0.24	-0.18	6.69



## Survey Report



<b>Company:</b>	BILL BARRETT CORPORATION	<b>Local Co-ordinate Reference:</b>	Well #13-5D-35 BTR
<b>Project:</b>	UTAH (DUCHESNE COUNTY - NAD 83)	<b>TVD Reference:</b>	KB @ 6175.0usft (PATTERSON 506)
<b>Site:</b>	SEC. 5 T3S R5W	<b>MD Reference:</b>	KB @ 6175.0usft (PATTERSON 506)
<b>Well:</b>	#13-5D-35 BTR	<b>North Reference:</b>	True
<b>Wellbore:</b>	JOB # 2009-180	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	FINAL SURVEYS	<b>Database:</b>	EDM 5000.1 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,339.0	1.23	77.02	1,338.9	4,836.1	-4.6	-0.2	-3.3	0.33	-0.09	14.24
1,434.0	1.34	82.91	1,433.8	4,741.2	-4.2	1.9	-4.4	0.18	0.12	6.20
1,529.0	1.27	70.34	1,528.8	4,646.2	-3.8	4.0	-5.5	0.31	-0.07	-13.23
1,624.0	1.27	78.52	1,623.8	4,551.2	-3.2	6.0	-6.4	0.19	0.00	8.61
1,719.0	1.23	75.97	1,718.8	4,456.2	-2.7	8.0	-7.5	0.07	-0.04	-2.68
1,815.0	0.70	42.48	1,814.7	4,360.3	-2.0	9.4	-7.9	0.78	-0.55	-34.89
1,910.0	0.70	55.84	1,909.7	4,265.3	-1.3	10.3	-7.9	0.17	0.00	14.06
2,005.0	0.66	37.21	2,004.7	4,170.3	-0.5	11.1	-7.9	0.24	-0.04	-19.61
2,100.0	0.26	78.16	2,099.7	4,075.3	-0.1	11.7	-8.0	0.52	-0.42	43.11
2,195.0	0.31	0.03	2,194.7	3,980.3	0.2	11.9	-7.9	0.38	0.05	-82.24
2,290.0	0.31	32.02	2,289.7	3,885.3	0.7	12.0	-7.6	0.18	0.00	33.67
2,386.0	0.62	324.61	2,385.7	3,789.3	1.4	11.9	-7.0	0.60	0.32	-70.22
2,481.0	0.59	45.52	2,480.7	3,694.3	2.1	11.9	-6.5	0.83	-0.03	85.17
2,576.0	0.70	270.65	2,575.7	3,599.3	2.5	11.7	-6.1	1.25	0.12	-141.97
2,671.0	0.97	287.08	2,670.7	3,504.3	2.7	10.3	-5.0	0.38	0.28	17.29
2,766.0	1.58	293.76	2,765.7	3,409.3	3.5	8.4	-3.1	0.66	0.64	7.03
2,861.0	1.19	290.33	2,860.7	3,314.3	4.4	6.2	-1.0	0.42	-0.41	-3.61
2,956.0	1.93	281.28	2,955.6	3,219.4	5.0	3.7	1.1	0.82	0.78	-9.53
3,052.0	0.97	253.86	3,051.6	3,123.4	5.1	1.4	2.8	1.21	-1.00	-28.56
3,147.0	0.79	250.78	3,146.6	3,028.4	4.7	0.0	3.4	0.20	-0.19	-3.24
3,242.0	1.45	247.97	3,241.6	2,933.4	4.0	-1.8	4.1	0.70	0.69	-2.96
3,337.0	1.54	252.63	3,336.5	2,838.5	3.2	-4.1	5.1	0.16	0.09	4.91
3,432.0	1.14	211.49	3,431.5	2,743.5	2.0	-5.8	5.4	1.07	-0.42	-43.31
3,527.0	1.45	198.05	3,526.5	2,648.5	0.0	-6.7	4.5	0.45	0.33	-14.15
3,626.0	1.58	206.84	3,625.4	2,549.6	-2.4	-7.7	3.5	0.27	0.13	8.88
<b>SURFACE CASING</b>										
<b>4,030.0</b>	<b>2.78</b>	<b>210.59</b>	<b>4,029.1</b>	<b>2,145.9</b>	<b>-15.8</b>	<b>-15.2</b>	<b>-1.3</b>	<b>0.30</b>	<b>0.30</b>	<b>0.93</b>
4,069.0	2.90	210.79	4,068.1	2,106.9	-17.5	-16.2	-1.9	0.30	0.30	0.51
4,164.0	1.54	205.69	4,163.0	2,012.0	-20.7	-17.9	-3.0	1.45	-1.43	-5.37
4,259.0	0.26	125.71	4,258.0	1,917.0	-21.9	-18.3	-3.7	1.60	-1.35	-84.19
4,355.0	0.31	112.27	4,354.0	1,821.0	-22.2	-17.9	-4.1	0.09	0.05	-14.00
4,450.0	0.57	73.33	4,449.0	1,726.0	-22.1	-17.2	-4.6	0.40	0.27	-40.99
4,545.0	1.45	45.50	4,544.0	1,631.0	-21.2	-15.9	-4.8	1.03	0.93	-29.29
4,640.0	0.83	55.31	4,639.0	1,536.0	-19.9	-14.5	-4.8	0.68	-0.65	10.33
4,735.0	1.10	33.34	4,734.0	1,441.0	-18.8	-13.4	-4.7	0.48	0.28	-23.13
4,830.0	1.32	23.32	4,828.9	1,346.1	-17.0	-12.5	-4.0	0.32	0.23	-10.55
4,925.0	1.19	0.56	4,923.9	1,251.1	-15.0	-12.0	-2.9	0.54	-0.14	-23.96
5,020.0	1.49	16.82	5,018.9	1,156.1	-12.8	-11.7	-1.5	0.51	0.32	17.12
5,116.0	1.54	18.84	5,114.9	1,060.1	-10.4	-10.9	-0.3	0.08	0.05	2.10
5,211.0	1.89	351.07	5,209.8	965.2	-7.7	-10.7	1.6	0.94	0.37	-29.23
<b>KOP</b>										
<b>5,306.0</b>	<b>1.63</b>	<b>337.62</b>	<b>5,304.8</b>	<b>870.2</b>	<b>-4.9</b>	<b>-11.5</b>	<b>4.2</b>	<b>0.51</b>	<b>-0.27</b>	<b>-14.16</b>
5,401.0	1.41	319.34	5,399.7	775.3	-2.7	-12.8	6.6	0.56	-0.23	-19.24
5,496.0	2.72	304.40	5,494.7	680.3	-0.6	-15.4	10.0	1.48	1.38	-15.73
5,591.0	3.43	307.03	5,589.5	585.5	2.4	-19.5	15.0	0.76	0.75	2.77
5,687.0	3.74	316.88	5,685.4	489.6	6.4	-23.9	21.0	0.72	0.32	10.26
5,782.0	5.19	321.71	5,780.1	394.9	12.1	-28.7	28.3	1.58	1.53	5.08
5,877.0	6.59	323.12	5,874.6	300.4	19.8	-34.7	38.0	1.48	1.47	1.48
5,972.0	8.09	326.90	5,968.8	206.2	29.7	-41.6	50.1	1.66	1.58	3.98
6,068.0	9.23	327.77	6,063.7	111.3	41.9	-49.4	64.3	1.20	1.19	0.91
6,163.0	10.02	327.51	6,157.3	17.7	55.3	-57.9	79.9	0.83	0.83	-0.27
6,258.0	10.90	324.26	6,250.8	-75.8	69.6	-67.6	97.0	1.11	0.93	-3.42
6,353.0	12.26	326.72	6,343.8	-168.8	85.3	-78.3	115.8	1.52	1.43	2.59

## Survey Report



<b>Company:</b>	BILL BARRETT CORPORATION	<b>Local Co-ordinate Reference:</b>	Well #13-5D-35 BTR
<b>Project:</b>	UTAH (DUCHESE COUNTY - NAD 83)	<b>TVD Reference:</b>	KB @ 6175.0usft (PATTERSON 506)
<b>Site:</b>	SEC. 5 T3S R5W	<b>MD Reference:</b>	KB @ 6175.0usft (PATTERSON 506)
<b>Well:</b>	#13-5D-35 BTR	<b>North Reference:</b>	True
<b>Wellbore:</b>	JOB # 2009-180	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	FINAL SURVEYS	<b>Database:</b>	EDM 5000.1 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
6,448.0	13.23	326.54	6,436.5	-261.5	102.8	-89.9	136.5	1.02	1.02	-0.19
6,544.0	11.29	323.91	6,530.3	-355.3	119.6	-101.5	156.7	2.10	-2.02	-2.74
6,638.0	12.66	323.73	6,622.2	-447.2	135.3	-113.0	176.1	1.46	1.46	-0.19
6,734.0	11.21	322.50	6,716.2	-541.2	151.2	-124.9	195.8	1.53	-1.51	-1.28
6,829.0	9.76	319.51	6,809.6	-634.6	164.7	-135.7	213.1	1.63	-1.53	-3.15
6,924.0	8.48	317.49	6,903.4	-728.4	176.0	-145.7	228.1	1.39	-1.35	-2.13
7,019.0	7.03	310.55	6,997.5	-822.5	184.9	-154.9	240.9	1.81	-1.53	-7.31
7,114.0	6.02	306.07	7,091.9	-916.9	191.6	-163.3	251.6	1.19	-1.06	-4.72
7,209.0	5.58	298.33	7,186.4	-1,011.4	196.7	-171.4	260.8	0.94	-0.46	-8.15
7,305.0	4.61	287.08	7,282.0	-1,107.0	200.1	-179.2	268.6	1.45	-1.01	-11.72
7,400.0	3.43	269.68	7,376.8	-1,201.8	201.2	-185.7	273.8	1.77	-1.24	-18.32
7,495.0	2.68	255.18	7,471.7	-1,296.7	200.6	-190.7	276.7	1.13	-0.79	-15.26
7,590.0	1.49	251.22	7,566.6	-1,391.6	199.6	-194.0	278.3	1.26	-1.25	-4.17
7,685.0	1.98	235.14	7,661.6	-1,486.6	198.3	-196.5	279.0	0.72	0.52	-16.93
7,780.0	1.18	225.65	7,756.5	-1,581.5	196.7	-198.5	279.2	0.88	-0.84	-9.99
7,875.0	1.63	208.42	7,851.5	-1,676.5	194.8	-199.9	278.7	0.64	0.47	-18.14
7,970.0	1.54	214.75	7,946.5	-1,771.5	192.6	-201.3	278.0	0.21	-0.09	6.66
8,065.0	1.58	212.81	8,041.4	-1,866.4	190.4	-202.7	277.4	0.07	0.04	-2.04
8,160.0	1.19	215.63	8,136.4	-1,961.4	188.5	-204.0	276.9	0.42	-0.41	2.97
8,256.0	0.31	223.27	8,232.4	-2,057.4	187.5	-204.7	276.7	0.92	-0.92	7.96
8,351.0	0.70	208.24	8,327.4	-2,152.4	186.8	-205.2	276.5	0.43	0.41	-15.82
8,446.0	1.05	213.52	8,422.4	-2,247.4	185.6	-205.9	276.1	0.38	0.37	5.56
8,541.0	0.70	244.10	8,517.4	-2,342.4	184.6	-206.9	276.0	0.60	-0.37	32.19
8,636.0	1.41	215.45	8,612.3	-2,437.3	183.4	-208.1	275.9	0.91	0.75	-30.16
8,731.0	1.63	203.94	8,707.3	-2,532.3	181.2	-209.4	275.2	0.40	0.23	-12.12
8,827.0	0.66	115.25	8,803.3	-2,628.3	179.7	-209.4	274.1	1.82	-1.01	-92.39
8,922.0	0.35	121.23	8,898.3	-2,723.3	179.3	-208.7	273.3	0.33	-0.33	6.29
9,017.0	0.97	211.76	8,993.3	-2,818.3	178.5	-208.9	272.8	1.09	0.65	95.29
9,112.0	0.92	206.84	9,088.3	-2,913.3	177.1	-209.6	272.4	0.10	-0.05	-5.18
9,208.0	0.97	219.32	9,184.3	-3,009.3	175.8	-210.5	272.0	0.22	0.05	13.00
9,302.0	1.23	224.77	9,278.2	-3,103.2	174.5	-211.7	271.8	0.30	0.28	5.80
9,397.0	0.53	227.32	9,373.2	-3,198.2	173.5	-212.7	271.8	0.74	-0.74	2.68
9,493.0	0.79	225.73	9,469.2	-3,294.2	172.7	-213.5	271.8	0.27	0.27	-1.66
9,588.0	0.92	225.73	9,564.2	-3,389.2	171.7	-214.6	271.7	0.14	0.14	0.00
9,638.0	1.19	222.66	9,614.2	-3,439.2	171.1	-215.2	271.7	0.55	0.54	-6.14
9,778.0	1.36	225.73	9,754.2	-3,579.2	168.8	-217.4	271.5	0.13	0.12	2.19
9,873.0	1.01	243.84	9,849.1	-3,674.1	167.7	-218.9	271.7	0.54	-0.37	19.06
9,968.0	1.14	234.70	9,944.1	-3,769.1	166.8	-220.5	272.1	0.23	0.14	-9.62
10,064.0	1.12	232.94	10,040.1	-3,865.1	165.6	-222.0	272.3	0.04	-0.02	-1.83
10,159.0	0.97	231.62	10,135.1	-3,960.1	164.6	-223.4	272.4	0.16	-0.16	-1.39
10,246.0	0.92	233.93	10,222.1	-4,047.1	163.7	-224.5	272.6	0.07	-0.06	2.66
10,341.0	1.01	244.19	10,317.1	-4,142.1	162.9	-225.9	272.9	0.20	0.09	10.80
10,436.0	0.92	265.90	10,412.1	-4,237.1	162.5	-227.4	273.6	0.39	-0.09	22.85
10,532.0	0.79	270.38	10,508.0	-4,333.0	162.4	-228.8	274.6	0.15	-0.14	4.67
10,627.0	0.79	232.24	10,603.0	-4,428.0	162.0	-230.0	275.1	0.54	0.00	-40.15
10,722.0	1.27	230.83	10,698.0	-4,523.0	161.0	-231.3	275.2	0.51	0.51	-1.48
10,817.0	0.97	241.73	10,793.0	-4,618.0	159.9	-232.8	275.4	0.39	-0.32	11.47
10,913.0	1.01	227.58	10,889.0	-4,714.0	159.0	-234.2	275.7	0.26	0.04	-14.74
11,008.0	1.41	226.52	10,984.0	-4,809.0	157.6	-235.6	275.6	0.42	0.42	-1.12
11,103.0	1.41	222.83	11,078.9	-4,903.9	155.9	-237.3	275.5	0.10	0.00	-3.88
LAST SURVEY - MAY 12, 2013										
11,179.0	1.32	218.53	11,154.9	-4,979.9	154.6	-238.5	275.3	0.18	-0.12	-5.66

## Survey Report



<b>Company:</b>	BILL BARRETT CORPORATION	<b>Local Co-ordinate Reference:</b>	Well #13-5D-35 BTR
<b>Project:</b>	UTAH (DUCHESNE COUNTY - NAD 83)	<b>TVD Reference:</b>	KB @ 6175.0usft (PATTERSON 506)
<b>Site:</b>	SEC. 5 T3S R5W	<b>MD Reference:</b>	KB @ 6175.0usft (PATTERSON 506)
<b>Well:</b>	#13-5D-35 BTR	<b>North Reference:</b>	True
<b>Wellbore:</b>	JOB # 2009-180	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	FINAL SURVEYS	<b>Database:</b>	EDM 5000.1 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
PROJECTION TO TD										
11,229.0	1.26	215.70	11,204.9	-5,029.9	153.7	-239.2	275.1	0.17	-0.12	-5.66

Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
- hit/miss target										
- Shape										
BHL - #13-5D-35 BTR (F	0.00	0.00	11,428.0	199.3	-184.0	7,259,258.59	1,924,903.12	40° 14' 38.738 N	110° 28' 50.992 W	
- survey misses target center by 234.3usft at 11229.0usft MD (11204.9 TVD, 153.7 N, -239.2 E)										
- Rectangle (sides W200.0 H200.0 D0.0)										
BHL - #13-5D-35 BTR	0.00	0.00	11,226.0	199.3	-184.0	7,259,258.59	1,924,903.12	40° 14' 38.738 N	110° 28' 50.992 W	
- survey misses target center by 74.6usft at 11229.0usft MD (11204.9 TVD, 153.7 N, -239.2 E)										
- Rectangle (sides W200.0 H200.0 D0.0)										

Survey Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
4,030.0	4,029.1	-15.8	-15.2	SURFACE CASING	
5,306.0	5,304.8	-4.9	-11.5	KOP	
11,179.0	11,154.9	154.6	-238.5	LAST SURVEY - MAY 12, 2013	
11,229.0	11,204.9	153.7	-239.2	PROJECTION TO TD	

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_

**13-5D-35 BTR 4/17/2013 06:00 - 4/18/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,222.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	12.00	18:00	1	RIGUP & TEARDOWN	STAGE OVER RIG F/ 14-7D-45 BTR TO 13-5D-45 BTR DUE TO MUDDY LOCATION STAGE OVER 40% RIG UP SHACKES, SHAKERS
18:00	12.00	06:00	1	RIGUP & TEARDOWN	WAIT ON DAYLIGHTS

**13-5D-35 BTR 4/18/2013 06:00 - 4/19/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,222.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	12.00	18:00	1	RIGUP & TEARDOWN	RIG UP, RIG MOVE SET SUBS, MUD PUMPS PITS, PUT TOGETHER DERRICK SET ON FLOOR, DRAW WORKS
18:00	12.00	06:00	1	RIGUP & TEARDOWN	WAIT ON DAY LIGHTS

**13-5D-35 BTR 4/19/2013 06:00 - 4/20/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,222.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	1	RIGUP & TEARDOWN	RIG MOVE STAGE THE REST OF THE BUILDINGS INTO PLACE RASIE DERRICK AT13:30 SET CAT WALK, BEAVER SLIDE, PIPE TUBS, BRIDLE DOWN RIG UP FLOOR, INSTALL RISER, INSTALL FLOW LINE, FILL PIT, PUT UP WIND WALLS, PICK UP AND MAKE UP KELLY

**13-5D-35 BTR 4/20/2013 06:00 - 4/21/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,222.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	4.00	10:00	1	RIGUP & TEARDOWN	FINISH RIGGING UP. FLARE LINES GASBUSTER LINES STRAP BHA AND DIRECTIONAL TOOLS, PRE SPUD INSPECTION
10:00	2.00	12:00	20	DIRECTIONAL WORK	PICK UP DIRECTIONAL TOOLS (MONELS & MWD) SCRIBE M/U BIT, ALSO PICK UP SHOCK SUB & REAMERS
12:00	18.00	06:00	2	DRILL ACTUAL	STEERABLE DRILLING F/ 80'-1182' (1102' @ 61' Hr AVG). WOB 17k, GPM 552, MTR RPM 95, RPM 45 SLIDING 10%, ROTOATE 90%.

**13-5D-35 BTR 4/21/2013 06:00 - 4/22/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,222.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.50	17:30	2	DRILL ACTUAL	STEERABLE DRILLING F/ 1182'-1816' (634' @ 55' Hr AVG). WOB 18k, GPM 600, MTR RPM 108 RPM 45 SLIDING 10%, ROTOATE 90%.
17:30	0.50	18:00	7	LUBRICATE RIG	RIG SERVICE
18:00	12.00	06:00	2	DRILL ACTUAL	STEERABLE DRILLING F/ 1,816'-2,419' (603' @ 55' Hr AVG). WOB 18k, GPM 600, MTR RPM 108 RPM 45 SLIDING 10%, ROTOATE 90%.

**13-5D-35 BTR 4/22/2013 06:00 - 4/23/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,222.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	7.00	13:00	2	DRILL ACTUAL	STEERABLE DRILLING F/ 2,419'-2,608' (189' @ 27' Hr AVG). WOB 22k, GPM 600, MTR RPM 108 RPM 45 SLIDING 10%, ROTOATE 90%. SEEPAGE @ 2,505'
13:00	1.50	14:30	5	COND MUD & CIRC	CIRCULATE SWEEP AROUND FOR TRIP
14:30	3.50	18:00	6	TRIPS	TRIP OUT OF HOLE TO CHANGE BIT AND MM
18:00	1.50	19:30	20	DIRECTIONAL WORK	CHANGE OUT BIT AND MUD MOTOR RE SCRIB
19:30	2.00	21:30	6	TRIPS	TRIP IN HOLE
21:30	0.50	22:00	3	REAMING	WASH TO BOTTON
22:00	8.00	06:00	2	DRILL ACTUAL	STEERABLE DRILLING F/ 2,608'-2,845' (237' @ 29' Hr AVG). WOB 22k, GPM 600, MTR RPM 108 RPM 45 SLIDING 10%, ROTOATE 90%.

**13-5D-35 BTR 4/23/2013 06:00 - 4/24/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,222.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	10.00	16:00	2	DRILL ACTUAL	STEERABLE DRILLING F/ 2,845'-3,053' (208' @ 20.8/ Hr AVG). WOB 25k, GPM 480, MTR RPM 81 RPM 45 SLIDING 10%, ROTOATE 90%.SEEPAGE @ 2,974'
16:00	0.50	16:30	7	LUBRICATE RIG	RIG SERVICE
16:30	13.50	06:00	2	DRILL ACTUAL	STEERABLE DRILLING F/ 3053'-3,339' (286' @ 21.1/ Hr AVG). WOB 25k, GPM 480, MTR RPM 81 RPM 45 SLIDING 10%, ROTOATE 90%

**13-5D-35 BTR 4/24/2013 06:00 - 4/25/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,222.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.50	17:30	2	DRILL ACTUAL	STEERABLE DRILLING F/ 3,339'-3,619' (280' @ 21.1/ Hr AVG). WOB 25k, GPM 480, MTR RPM 81 RPM 45 SLIDING 10%, ROTOATE 90%
17:30	0.50	18:00	7	LUBRICATE RIG	RIG SERVICE
18:00	2.00	20:00	2	DRILL ACTUAL	STEERABLE DRILLING F/ 3,619'-3,630' (11' @ 5.5/ Hr AVG). WOB 25k, GPM 480, MTR RPM 81 RPM 45 SLIDING 10%, ROTOATE 90%
20:00	0.50	20:30	5	COND MUD & CIRC	CIRCULATE SWEEP AROUND TRIP OUT TO CHANGE BIT AND MOTOR
20:30	4.00	00:30	6	TRIPS	TRIP OUT OF HOLE FOR BIT AND MM
00:30	1.00	01:30	20	DIRECTIONAL WORK	CHANGE OUT BIT AND MOTOR RE SCRIBE
01:30	4.50	06:00	6	TRIPS	TRIP IN HOLE HIT TIGHT SPOTS @ 2311, 2319, 2621'

**13-5D-35 BTR 4/25/2013 06:00 - 4/26/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,222.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.50	06:30	6	TRIPS	FINISH TRIPPING IN HOLE
06:30	0.50	07:00	2	DRILL ACTUAL	STEERABLE DRILLING F/ 3,630'-3640' (10' @ 40/ Hr AVG). WOB 25k, GPM 480, MTR RPM 81 RPM 45 SLIDING 0%, ROTOATE 100%
07:00	1.50	08:30	5	COND MUD & CIRC	CIRCULATE MUD NO RETURNS BUILD VOLUME AND PUMP LCM SWEEPS
08:30	6.00	14:30	5	COND MUD & CIRC	STAGE OUT 24 STANDS FOR LOSSES REGAIN CIRCULATION @ 2,199' STAGE BACK IN HOLE 3 STANDS AT A TIME BREAK CIRCULATION GOOD RETURNS
14:30	4.00	18:30	2	DRILL ACTUAL	STEERABLE DRILLING F/ 3,640'-3,769' (129' @ 32/ Hr AVG). WOB 25k, GPM 400, MTR RPM 68 RPM 45 SLIDING 0%, ROTOATE 100%
18:30	2.00	20:30	5	COND MUD & CIRC	LOST RETURNS CIRCULATE & STAGE HIGH LCM SWEEP DOWN HOLE
20:30	4.00	00:30	6	TRIPS	TRIP OUT OF THE HOLE TO LAY DOWN REAMERS AND DIRECTIONAL TOOLS
00:30	1.50	02:00	20	DIRECTIONAL WORK	LAY DOWN DIRECTIONAL TOOLS AND REAMERS
02:00	4.00	06:00	6	TRIPS	TRIP IN THE HOLE BREAKING CIRCULATION EVERY 1000'

**13-5D-35 BTR 4/26/2013 06:00 - 4/27/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,222.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	7.50	13:30	2	DRILL ACTUAL	DRILLING F/ 3,769'-3,914' GPM 350-400 RPM 45-52 (FOOTAGE 145' AVG. ROP 20.7 PER HR.)
13:30	0.50	14:00	5	COND MUD & CIRC	CIRCULATE FOR LOSSES BUILD VOLUME
14:00	3.50	17:30	2	DRILL ACTUAL	DRILLING F/ 3,914'-4,010" GPM 350-400 RPM 45-52
17:30	0.50	18:00	7	LUBRICATE RIG	RIG SERVICE
18:00	0.50	18:30	2	DRILL ACTUAL	DRILLING F/ 4,010'-4,030" SURFACE TD GPM 350-400 RPM 45-52
18:30	0.50	19:00	5	COND MUD & CIRC	CIRCULATE BOTTOMS UP
19:00	1.00	20:00	6	TRIPS	TRIP OUT 5 STANDS BREAK CIRC
20:00	1.50	21:30	5	COND MUD & CIRC	CIRCULATE MUD PUMP LCM SWEEPS DOWN HOLE
21:30	3.50	01:00	6	TRIPS	TRIP OUT OF HOLE FOR CASING RUN LAY DOWN 8' DCs AND MUD MOTOR & BIT
01:00	5.00	06:00	12	RUN CASING & CEMENT	HELD S/M WITH KIMZEY ON RIG UP & RUNNING CASING RUN J-55 36# LTC

**13-5D-35 BTR 4/27/2013 06:00 - 4/28/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,222.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	7.50	13:30	12	RUN CASING & CEMENT	HOLD S/M WITH RIG CREW AND KIMZEY RUN CASING 36# J-55 LTC 9 5/8 SET AT 4,020' RIG DOWN CASING CREWS AND RIG UP CEMENTERS
13:30	4.50	18:00	12	RUN CASING & CEMENT	HELD S/M WITH HALLUBIRTON CEMENT PUMP 3 BBLS FRESH WATER (FILL LINES) PRESSURE TEST LINES TO 3000 PUMP FRESH SPACER 17 BBLS PUMP SUPER FLUSH 40 BBLS DEN 10 PUMP FRESH SPACER 20 BBLS PUMP LEAD CEMENT 394 BBLS 700 SKS DEN: 11# YD 3.16 GAL/SK 19.43 PUMP TAIL CEMENT 57 BBLS 8DEN 14.8# YD 1.37 GAL/SK 6.62 DROP PLUG DISPLACE WITH RIG MUD 307.6 BBLS BUMP PLUG @ 400 OVER CHECK FLOATS 3 MINS (HELD) NO RETURNS
18:00	2.00	20:00	12	RUN CASING & CEMENT	RIG UP 1" TOP JOB #1 175 SKS 36 BBLS 15.8# 1.17 YD 5.02 GAL/PER SK NO RETURNS
20:00	1.50	21:30	13	WAIT ON CEMENT	WOC
21:30	1.00	22:30	12	RUN CASING & CEMENT	TOP JOB #2 175 SKS 36 BBLS 15.8# 1.17 YD 5.02 GAL/PER SK NO RETURNS
22:30	4.00	02:30	13	WAIT ON CEMENT	WOC
02:30	1.00	03:30	12	RUN CASING & CEMENT	TOP JOB #3 384 SKS 80 BBLS 15.8# 1.17 YD 5.02 GAL/PER SK NO RETURNS
03:30	2.50	06:00	13	WAIT ON CEMENT	WOC

**13-5D-35 BTR 4/28/2013 06:00 - 4/29/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,222.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.50	07:30	13	WAIT ON CEMENT	WOC
07:30	1.00	08:30	12	RUN CASING & CEMENT	TOP JOB #4 175 SKS 36 BBLS 15.8# 1.17 YD 5.02 GAL/PER SK NO RETURNS
08:30	3.50	12:00	13	WAIT ON CEMENT	WOC
12:00	1.00	13:00	12	RUN CASING & CEMENT	TOP JOB #5 175 SKS 36 BBLS 15.8# 1.17 YD 5.02 GAL/PER SK NO RETURNS
13:00	2.50	15:30	13	WAIT ON CEMENT	WOC
15:30	2.00	17:30	12	RUN CASING & CEMENT	TOP JOB 175 SKS 36 BBLS 15.8# 1.17 YD 5.02 GAL/PER SK RETURNS WITH GOOD TOP OUT FLUSH RISER RIG DOWN CEMENTERS
17:30	6.50	00:00	14	NIPPLE UP B.O.P	RIG DOWN CONDUCTOR CUT OFF CASING/WELD ON WELL HEAD N/U BOPS
00:00	5.00	05:00	15	TEST B.O.P	HELD S/M WITH B&C QUICK TEST LOW 250 5 MIN HIGH 10 MINS 5,000 TEST F.O.S.V LOWER KELLY UPPER KELLY VLAVE DART VALVE PIPE RAMS BLIND RAMS INSIDE VALVES HCR OUT SIDE KILL CHOKE LINE CHECK VLAVE UPRIGHT GAGE INSIDE MANIFOLD VALVES SUPER CHOKETEST ANNULAR TO 2500 TEST CASING 1500 PSI 30 MINS TESTER ERIK WALKINS
05:00	0.50	05:30	21	OPEN	SET WARE BUSHING
05:30	0.50	06:00	20	DIRECTIONAL WORK	PICK UP DIRECTIONAL TOOLS REAMERS MWD MONELS M/U BIT SCRIBE TOOL

**13-5D-35 BTR 4/29/2013 06:00 - 4/30/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,222.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.00	08:00	20	DIRECTIONAL WORK	FINSH PICKING UP DIRECTIONAL TOOLS SCRIBE
08:00	3.50	11:30	6	TRIPS	TRIP IN HOLE TO 3,976'
11:30	0.50	12:00	2	DRILL ACTUAL	DRILL FLOAT, SHOE, CEMENT & 20' NEW FORMATION
12:00	0.50	12:30	21	OPEN	PERFORMED A EMW TEST @ 10.5 442 PSI FOR 15 MINS HELD
12:30	4.50	17:00	2	DRILL ACTUAL	STEERABLE DRILLING F/ 4,050'-4156' (106' @ 20.8'/ Hr AVG). WOB 18k, GPM 480, MTR RPM 81 RPM 45 SLIDING 10%, ROTOATE 90%.
17:00	0.50	17:30	7	LUBRICATE RIG	RIG SERVICE FUNCTION TEST PIPE RAMS BOP DRILL @ 17:00 63 SEC
17:30	12.50	06:00	2	DRILL ACTUAL	STEERABLE DRILLING F/ 4,156'-4,885' (729' @ 58'/ Hr AVG). WOB 18k, GPM 546, MTR RPM 81 RPM 45 SLIDING 20%, ROTOATE 80%.

**13-5D-35 BTR 4/30/2013 06:00 - 5/1/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,222.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.50	17:30	2	DRILL ACTUAL	STEERABLE DRILLING F/ 4,885'-5,463' (578' @ 50'/ Hr AVG). WOB 19k, GPM 546, MTR RPM 81 RPM 45 SLIDING 30%, ROTOATE 70%.
17:30	0.50	18:00	7	LUBRICATE RIG	RIG SERVICE FUNCTION TEST PIPE RAMS

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
18:00	12.00	06:00	2	DRILL ACTUAL	STEERABLE DRILLING F/ 5,463'-5,932' (469' @ 40'/ Hr AVG). WOB 19k, GPM 546, MTR RPM 81 RPM 38 SLIDING 40%, ROTOATE 60%.

**13-5D-35 BTR 5/1/2013 06:00 - 5/2/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,222.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	10.50	16:30	2	DRILL ACTUAL	STEERABLE DRILLING F/ 5,932'-6249' (317' @ 31.7'/ Hr AVG). WOB 19k, GPM 546, MTR RPM 81 RPM 38 SLIDING 40%, ROTOATE 60%.
16:30	0.50	17:00	7	LUBRICATE RIG	RIG SERVICE
17:00	13.00	06:00	2	DRILL ACTUAL	STEERABLE DRILLING F/ 6249'- 6725' @ 36.6'/ Hr AVG). WOB 20 k, GPM 546, MTR RPM 81 RPM 38 SLIDING 40%, ROTATE 60%.

**13-5D-35 BTR 5/2/2013 06:00 - 5/3/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,222.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	10.50	16:30	2	DRILL ACTUAL	STEERABLE DRILLING F/ 6725'-7233' @ 48.4'/ Hr AVG). WOB 20 k, GPM 546, MTR RPM 81 RPM 43 SLIDING 25%, ROTATE 75%.
16:30	0.50	17:00	7	LUBRICATE RIG	RIG SERVICE
17:00	13.00	06:00	2	DRILL ACTUAL	STEERABLE DRILLING F/ 7233'-7677' @ 34.2'/ Hr AVG). WOB 20 k, GPM 559, MTR RPM 84 RPM 43 SLIDING 61%, ROTATE 39%.

**13-5D-35 BTR 5/3/2013 06:00 - 5/4/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,222.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.00	17:00	2	DRILL ACTUAL	STEERABLE DRILLING F/ 7677'-8088' @ 37.4'/ Hr AVG). WOB 22 k, GPM 559, MTR RPM 84 RPM 43 SLIDING 61%, ROTATE 39%.
17:00	0.50	17:30	7	LUBRICATE RIG	RIG SERVICE
17:30	12.50	06:00	2	DRILL ACTUAL	STEERABLE DRILLING F/ 8088'-8564' @ 41.4'/ Hr AVG). WOB 22 k, GPM 559, MTR RPM 84 RPM 43 SLIDING 10%, ROTATE 90%.

**13-5D-35 BTR 5/4/2013 06:00 - 5/5/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,222.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	10.00	16:00	2	DRILL ACTUAL	STEERABLE DRILLING F/8564'-8977' @ 41.3'/ Hr AVG). WOB 23 k, GPM 559, MTR RPM 84 RPM 43 SLIDING 10%, ROTATE 90%.
16:00	0.50	16:30	7	LUBRICATE RIG	RIG SERVICE
16:30	10.50	03:00	2	DRILL ACTUAL	STEERABLE DRILLING F/8977'-9299' @ 322'/30.6' Hr AVG). WOB 23 k, GPM 559, MTR RPM 84 RPM 43 SLIDING 0, ROTATE 100%.
03:00	1.00	04:00	5	COND MUD & CIRC	CIRC SWEEP/PUMP DRY JOB
04:00	2.00	06:00	6	TRIPS	TOOH f/BIT & MOTOR

**13-5D-35 BTR 5/5/2013 06:00 - 5/6/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,222.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.00	09:00	6	TRIPS	TOOH/HOLR TAKING MUD
09:00	2.00	11:00	20	DIRECTIONAL WORK	CHANGE BATTERIES IN MWD,MM& BIT ORIENT DIRC. TOOLS
11:00	3.00	14:00	6	TRIPS	TIH TO SHOE FILL PIPE
14:00	0.50	14:30	7	LUBRICATE RIG	RIG SERVICE
14:30	1.00	15:30	9	CUT OFF DRILL LINE	CUT DRILLING LINE
15:30	4.50	20:00	6	TRIPS	TIH
20:00	0.50	20:30	3	REAMING	WASH 30' TO BOTTOM 9269-9299
20:30	9.50	06:00	2	DRILL ACTUAL	STEERABLE DRILLING F/9299'-9558 @ 259'/27.3' Hr AVG). WOB 17 k, GPM 550, MTR RPM 46 RPM 43 SLIDING 0, ROTATE 100%.

**13-5D-35 BTR 5/6/2013 06:00 - 5/7/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,222.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	10.50	16:30	2	DRILL ACTUAL	STEERABLE DRILLING F/9558'-9897' @ 339'/32.3' Hr AVG). WOB 22 k, GPM 485, MTR RPM 46 RPM 43 SLIDING 10, ROTATE 90%.
16:30	0.50	17:00	7	LUBRICATE RIG	RIG SERVICE
17:00	13.00	06:00	2	DRILL ACTUAL	STEERABLE DRILLING F/9897'-10245' @ 345'/31.6' Hr AVG). WOB 25 k, GPM 485, MTR RPM 46 RPM 43 SLIDING , ROTATE 100%.

**13-5D-35 BTR 5/7/2013 06:00 - 5/8/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,222.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	6.00	12:00	5	COND MUD & CIRC	CIRC OUT GAS THROUGH BUSTER & RAISE MW TO 10.1
12:00	6.00	18:00	6	TRIPS	TOOH FOR BIT AND MM
18:00	9.00	03:00	6	TRIPS	CHANGE BIT & MM LD ROLLER REAMERS/ TIH TO SHOE CIRC BU/TIH FILL PIPE EVERY 1000'
03:00	1.50	04:30	3	REAMING	WASH TO BOTTOM 10125-10245
04:30	1.50	06:00	2	DRILL ACTUAL	DRILL 5-10 WOB 350 GPM 40 RPM ON TABLE

**13-5D-35 BTR 5/8/2013 06:00 - 5/9/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,222.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	9.50	15:30	2	DRILL ACTUAL	STEERABLE DRILLING F/10250'-10489' @ 239'/25.2' Hr AVG). WOB 15 k, GPM 485, MTR RPM 46 RPM 43 SLIDING10% , ROTATE 90%.
15:30	0.50	16:00	7	LUBRICATE RIG	RIG SERVICE
16:00	5.50	21:30	2	DRILL ACTUAL	STEERABLE DRILLING F/10489'-10627' @ 138'/25.1' Hr AVG). WOB 15 k, GPM 485, MTR RPM 46 RPM 40 SLIDING10% , ROTATE 90%.
21:30	8.50	06:00	5	COND MUD & CIRC	CIRC OUT GAS ON BUSTER 4000 UNITS GAS 25-30 FLARE RAISE MW FROM 10.1 TO 10.8+ LCM 18% WT UP PRE-MIX AND TRANSFER TO UPRIGHT & REBUILD PRE-MIX

**13-5D-35 BTR 5/9/2013 06:00 - 5/10/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,222.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	5.50	11:30	5	COND MUD & CIRC	CIRC OUT GAS ON BUSTER 4000 UNITS GAS 20-25 FLARE RAISE MW FROM 10.8 TO 11.0 LCM 25%
11:30	4.50	16:00	2	DRILL ACTUAL	BIT WT= 15K RPM= 40 SPM=150
16:00	0.50	16:30	7	LUBRICATE RIG	RIG SERVICE
16:30	5.50	22:00	2	DRILL ACTUAL	BIT WT= 15K RPM= 40 SPM=150
22:00	6.50	04:30	5	COND MUD & CIRC	SHUT WELL IN CIRC OUT GAS THRU CHOKE
04:30	1.50	06:00	5	COND MUD & CIRC	CIRC & RAISE MW TO 11.4 PPG RAISE 1/10 A CIRCULATION

**13-5D-35 BTR 5/10/2013 06:00 - 5/11/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,222.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	6.50	12:30	5	COND MUD & CIRC	CIRC RAISE MW TO 11.4 PPG
12:30	1.00	13:30	2	DRILL ACTUAL	BIT WT= 15K RPM= 40 SPM=150
13:30	1.00	14:30	5	COND MUD & CIRC	CIRC BOTTOMS UP AFTER DRILLING BREAK

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
14:30	1.50	16:00	2	DRILL ACTUAL	BIT WT= 15K RPM= 40 SPM=150
16:00	0.50	16:30	7	LUBRICATE RIG	RIG SERVICE
16:30	13.50	06:00	2	DRILL ACTUAL	BIT WT= 15K RPM= 40 SPM=150

**13-5D-35 BTR 5/11/2013 06:00 - 5/12/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,222.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.50	07:30	2	DRILL ACTUAL	BIT WT= 15K RPM= 40 SPM=150 11229 TD
07:30	1.00	08:30	5	COND MUD & CIRC	CIRC SWEEP
08:30	3.00	11:30	6	TRIPS	WIPER TRIP 20 STDS
11:30	4.00	15:30	5	COND MUD & CIRC	CIRC SWEEP MIX AND SPOT KILL PILL 10,000' TO 8500'
15:30	14.50	06:00	6	TRIPS	LDDP

**13-5D-35 BTR 5/12/2013 06:00 - 5/13/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,222.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	6.50	12:30	6	TRIPS	LAY DOWN DRILL PIP/HWDC/DCs/MM/BIT & BREAK KELLY
12:30	13.00	01:30	12	RUN CASING & CEMENT	HOLD S/M WITH WEATHERFORD RUN CASING 5.5 LT&C 17# FILL PIPE AND BREAK CIRCULATION EVERY 1000' RUN CASING F/ 0'-8,958'
01:30	3.00	04:30	12	RUN CASING & CEMENT	CIRCULATE BTMS UP
04:30	1.50	06:00	12	RUN CASING & CEMENT	RUN CASING WITH WEATHERFORD F/ 8,958'-10,576'

**13-5D-35 BTR 5/13/2013 06:00 - 5/14/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,222.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.50	09:30	12	RUN CASING & CEMENT	RUN CASING F/ 10,576'-11,222'
09:30	1.50	11:00	12	RUN CASING & CEMENT	CIRCULATE BOTTOMS UP
11:00	2.50	13:30	12	RUN CASING & CEMENT	HOLD S/M WITH HALLIBURTON RIG UP AND PUMP 1ST STAGE OF CEMENT JOB FILL LINES 3 BBLS TEST TO 5000 PSI 40 BBLS TUNED SPACER 12.5# F3/SK 10.53 GAL/SK 216 BBLS TAIL CEMENT @ 14.2# 1.25 F3/SK 5.37 GAL/SK WASH LINES DROP PLUG/ DISPLACEMENT 80 MUD 30 H2O 148.3 MUD SLOW RATE @ 153 AWAY T 3 BBLS A MIN FOR 20 BBLS TOTAL DISPLACEMENT 258.3 BBLS BUMP PLUG 500 OVER FINAL PRESSURE FINAL DIFF 1700 DROP DV DART WAIT 37 MINS PRESSURE UP 1200 PSI TO OPEN TOOL
13:30	3.00	16:30	12	RUN CASING & CEMENT	WOC CIRCULATE NO RETURNS
16:30	3.00	19:30	12	RUN CASING & CEMENT	HOLD S/M WITH HALLIBURTON PUMP SECOND STAGE PUMP 3 BBLS H2O TEST TO 5000 PSI 40 BBLS TUNED SPACER @ 12# 4.99 F3/SK 31.16/GAL SK 352.6 BBLS LEAD CEMENT @ 12.5# 1.96 F3/SK 10.53 GAL/SK 41.6 BBLS TAIL CEMENT @ 15.6# 1.17F3/SK 5.17 GAL/SK SHUT DOWN WASH UP LINES DROP PLUG DISPLACE 163 BBLS H2O SLOW RATE T/ 3 BBLS PER MIN 10 BBLS LIFT PRESSURE 1130 PSI BUMP PLUG 2000 PSI OVER ALSO TO CLOSE DV TOOL FLOATS HELD RIG DOWN CEMENTERS
19:30	2.50	22:00	12	RUN CASING & CEMENT	SET SLIPS WITH CAMERON SET SLIPS @ 190 20K OVER CUT OFF 5.5 CASING
22:00	4.00	02:00	14	NIPPLE DOWN BOP	NIPPLE DOWN
02:00	4.00	06:00	21	OPEN	CLEAN PITS (RIG RELEASE @ 6 AM)

**13-5D-35 BTR 5/14/2013 06:00 - 5/15/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,222.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	CLEAN AROUND CELLAR. JSA. CHECK PRESSURE. ND 11" NIGHT CAP. MAKE FINAL CUT AND DRESS 5-1/2" CSG. NU 7" 5K TBG HEAD. PRES TEST VOID AND SEALS. NU 7" NIGHT CAP. SET DEADMEN.

**13-5D-35 BTR 5/20/2013 06:00 - 5/21/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,222.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	RMOV	Rig Move	ROAD RIG TO LOCATION.
07:00	2.00	09:00	SRIG	Rig Up/Down	R/U RIG & EQUIPMENT. N/D WELLHEAD. N/U BOP. R/U FLOOR & EQUIPMENT. SDFN
09:00	21.00	06:00	LOCL	Lock Wellhead & Secure	CREW TRAVEL. WELL SECURE.

**13-5D-35 BTR 5/21/2013 06:00 - 5/22/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,222.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL. HOLD SAFETY MEETING.
07:00	1.00	08:00	DTIM	Downtime	WAIT ON FORK LIFT.
08:00	3.00	11:00	GOP	General Operations	SPOT CATWALK & PIPE RACKS. LOAD 362 JTS ON RACKS & TALLY TBG.
11:00	4.00	15:00	RUTB	Run Tubing	P/U 4-3/4 BIT, BIT SUB, 1 JT 2 7/8 TBG & XN- NIPPLE. RIH P/U TBG. TAG HIGH @ 7039'. DV TOOL @ 7069'.
15:00	2.00	17:00	CLN	Clean Out Hole	R/U POWER SWIVEL. BREAK CIRC. C/O CMT & D/O DV TOOL @ 7069'. CIRC WELL CLEAN. R/D SWIVEL.
17:00	2.00	19:00	RUTB	Run Tubing	CONTINUE RIH W/ BIT P/U TBG TO 8550'. SDFN.
19:00	11.00	06:00	LOCL	Lock Wellhead & Secure	CREW TRAVEL. WELL SECURE.

**13-5D-35 BTR 5/22/2013 06:00 - 5/23/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,222.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL. HOLD SAFETY MEETING.
07:00	2.00	09:00	RUTB	Run Tubing	FINISH RIH W/ 4-3/4 BIT P/U 2-7/8 TBG TO FLOAT COLLAR @ 11,132.
09:00	3.00	12:00	CLN	Clean Out Hole	CIRC WELL CLEAN. CIRC OUT +/- 65 BBLS OF DRILLING MUD.
12:00	7.00	19:00	PULT	Pull Tubing	POOH W/ BIT L/D 2-7/8 TBG. N/D BOP. N/U NITE CAP. SDFN.
19:00	11.00	06:00	LOCL	Lock Wellhead & Secure	WELL SECURE. CREW TRAVEL.

**13-5D-35 BTR 5/23/2013 06:00 - 5/24/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,222.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL. HOLD SAFETY MEETING.
07:00	1.00	08:00	SRIG	Rig Up/Down	R/D RIG & EQUIPMENT. CLEAN LOCATION. MOL.
08:00	22.00	06:00	LOCL	Lock Wellhead & Secure	WELL SECURE.

**13-5D-35 BTR 5/24/2013 06:00 - 5/25/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,222.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.00	08:00	LOCL	Lock Wellhead & Secure	WSI And Secured With NightCap. HES Logging Crew Arrive On Location, Hold Safety Meeting, Prep Logging Tool.
08:00	14.00	22:00	LOGG	Logging	P/U Junk Basket/Gauge Ring. RIH, Tagged Up At 11,104', Drilling Report Shows FC At 11,133', 29' Of Fill. POOH, P/U CBL Tool, Rih To PBTD, 11,104', Run Repeat Section From 11,104 - 10,800', Log Up Hole. Showed Good Bond From TD To 8,650', Fair From 8,650 - 4,000'. TOC 4,000'. Found Short Joints At 10,388 - 10,410' And 8,108 - 8,131'. Ran With Pressure. Pooh, RD Equipment, MOL.
22:00	8.00	06:00	LOCL	Lock Wellhead & Secure	WSI And Secured.





# Bill Barrett Corporation

## 13-5D-35 BTR 6/7/2013 06:00 - 6/8/2013 06:00

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,222.0	Primary Job Type Drilling & Completion
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### Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	EQUIP SET. FRAC LINE SET. FILLING FRAC LINE.

## 13-5D-35 BTR 6/8/2013 06:00 - 6/9/2013 06:00

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,222.0	Primary Job Type Drilling & Completion
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### Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	CHECK PRESSURE. ND NIGHT CAP. NU FRAC MANDREL, FRAC VALVES, AND FRAC HEAD. PRES TEST CSG, VALVES, AND FB EQUIP. FILLING FRAC LINE.

## 13-5D-35 BTR 6/9/2013 06:00 - 6/10/2013 06:00

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,222.0	Primary Job Type Drilling & Completion
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### Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	FINISH FILLING FRAC LINE

## 13-5D-35 BTR 6/10/2013 06:00 - 6/11/2013 06:00

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,222.0	Primary Job Type Drilling & Completion
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### Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	INSTALL HANDRAILS AND BACKSIDE MANIFOLD. HEAT FRAC LINE.

## 13-5D-35 BTR 6/11/2013 06:00 - 6/12/2013 06:00

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,222.0	Primary Job Type Drilling & Completion
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### Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.00	08:00	SRIG	Rig Up/Down	HSM. MIRU SLB.
08:00	2.00	10:00	PFRT	Perforating	MIRU SLB WITH 5K LUB. PU GUNS FOR STG 1. OPEN W/ 200 PSI. RIH AND CORRELATE TO SJ AT 7730+'-7752+'. RUN DOWN AND PERF CR-4 AND CR-4A FORM 10,723'-10.999' WITH 45 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. SHUT WELL IN WITH 1300 PSI. SECURE WELL.
10:00	6.00	16:00	SRIG	Rig Up/Down	MIRU HES FRAC FLEET. PRIME UP AND PRES TEST IRON.
16:00	14.00	06:00	LOCL	Lock Wellhead & Secure	WELL SHUT IN AND SECURE.

## 13-5D-35 BTR 6/12/2013 06:00 - 6/13/2013 06:00

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,222.0	Primary Job Type Drilling & Completion
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### Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.00	06:00	LOCL	Lock Wellhead & Secure	HES Crew On Location At 0400 Hrs., Prime Chemical And Fluid Pumps, Pressure Test To 9000 Psi., Ran QC On Fluid, Looks Good.
06:00	0.00	06:00	SMTG	Safety Meeting	Safety Meeting. Talk About Smoking Area, PPE, Escape And Mustering Areas, Communication, And Red Zone.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.59	06:35	FRAC	Frac. Job	<p>Frac Stage 1. Fluid System: Hybor G 16. Chemical Tracer In Sand Stages. Open Well, 1,335 Psi. ICP. BrokeDown At 10.1 Bpm And 4,858 Psi.. Pump 3900 Gals. 15% HCL And 90 Bio Balls, Attempt BallOut. Let Balls Fall. Get Stabilized Injection Of 62.6 Bpm And 6,489 Psi., Get ISIP, 3,816 Psi.. 0.79 Psi./Ft. F.G.. 30/45 Holes.</p> <p>Con't With SlickWater Pad, 48,751 Gals..</p> <p>Stage Into Hybor Pad, 63.1 Bpm At 5,724 Psi..</p> <p>On Perfs, 65.2 Bpm At 6,234 Psi., 12,190 Gals.</p> <p>Stage Into 2.0# 20/40 CRC Prop, 65.1 Bpm At 6,288 Psi..</p> <p>On Perfs, 74.2 Bpm At 6,094 Psi., 11,793 Gals.</p> <p>Stage Into 3.0# 20/40 CRC Prop, 74.2 Bpm At 6,129 Psi..</p> <p>On Perfs, 74.3 Bpm At 6,584 Psi., 16,204 Gals.</p> <p>Stage Into 3.5# 20/40 CRC Prop, 70.7 Bpm At 6,680 Psi..</p> <p>On Perfs, 70.6 Bpm At 7,538 Psi., 4,034 Gals.</p> <p>Cut Sand In 3.5#, Sharp Net Increase. 54% Of Designed Sand Pumped.</p> <p>Stage Into Flush, Flush 15 Bbls. Over Bottom Perf..</p> <p>Get ISDP, 4,146 Psi.. 0.82 Psi./Ft. F.G.. WSI And Secured.</p> <p>Total 20/40 CRC Prop - 81,100#</p> <p>Total Clean - 120,353 Gals.. 2,866 Bbls..</p> <p>Produced Water - 74,056 Gals..</p> <p>2% KCL - 44,221 Gals..</p> <p>BWTR - 2,945 Bbls.</p> <p>Max. Rate - 74. Bpm</p> <p>Avg. Rate - 69.5 Bpm</p> <p>Max. Psi. - 7,747 Psi.</p> <p>Avg. Psi. - 6,667 Psi.</p>
06:35	0.08	06:40	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CBP Plug Assembly. Equalize To Well Pressure.
06:40	1.33	08:00	PFRT	Perforating	<p>RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 120 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To HES Combo RBT/RMTE Log Dated 05-24-2013.</p> <p>Found And Correlated To Short Joint At 10,388 - 10,410'.</p> <p>Drop Down To Depth, Set CBP At 10,718'. 3,400 Psi..</p> <p>Perforate Stage 2 CR-4/CR-3 Zone, 10,433 - 10,698'. 45 Holes. 450 Psi..</p> <p>POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.</p>
08:00	0.09	08:05	GOP	General Operations	Well Turned Over To HES. Pressure Test To 8500#. Equalize, Open To Well.
08:05	1.00	09:05	FRAC	Frac. Job	<p>Frac Stage 2. Fluid System: Hybor G 16. Chemical Tracer In Sand Stages. Open Well, 930 Psi. ICP. BrokeDown At 10.3 Bpm And 4,626 Psi.. Pump 3900 Gals. 15% HCL And 90 Bio Balls, Attempt BallOut. Let Balls Fall. Get Stabilized Injection Of 74.7 Bpm And 6,031 Psi., Get ISIP, 3,529 Psi.. 0.77 Psi./Ft. F.G.. 31/45 Holes.</p> <p>Con't With SlickWater Pad, 48,359 Gals..</p> <p>Stage Into Hybor Pad, 74.2 Bpm At 5,895 Psi..</p> <p>On Perfs, 74.3 Bpm At 6,185 Psi., 12,012 Gals.</p> <p>Stage Into 2.0# 20/40 CRC Prop, 74.3 Bpm At 6,196 Psi..</p> <p>On Perfs, 74.5 Bpm At 5,740 Psi., 11,374 Gals.</p> <p>Stage Into 3.0# 20/40 CRC Prop, 74.5 Bpm At 5,703 Psi..</p> <p>On Perfs, 74.4 Bpm At 6,342 Psi., 14,774 Gals.</p> <p>Cut Sand In 3#, Sharp Increase In Net. 41% Of Designed Sand Pumped.</p> <p>Stage Into Flush, Flush 15 Bbls. Over Bottom Perf..</p> <p>Get ISDP, 4,209 Psi.. 0.84 Psi./Ft. F.G.. WSI And Secured.</p> <p>Total 20/40 CRC Prop - 62,220#</p> <p>Total Clean - 113,164 Gals.. 2,694 Bbls..</p> <p>Produced Water - 72,997 Gals..</p> <p>2% KCL - 38,160 Gals..</p> <p>BWTR - 2,752 Bbls.</p> <p>Max. Rate - 74.5 Bpm</p> <p>Avg. Rate - 74.3 Bpm</p> <p>Max. Psi. - 6,823 Psi.</p> <p>Avg. Psi. - 6,039 Psi.</p>
09:05	0.17	09:15	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CBP Plug Assembly. Equalize To Well Pressure.
09:15	1.25	10:30	PFRT	Perforating	<p>RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 120 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To HES Combo RBT/RMTE Log Dated 05-24-2013.</p> <p>Found And Correlated To Short Joint At 8,108 - 8,131'.</p> <p>Drop Down To Depth, Set CBP At 10,428'. 3,300 Psi..</p> <p>Perforate Stage 3 CR-2 Zone, 10,111 - 10,408'. 45 Holes. 1,200 Psi..</p> <p>POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.</p>
10:30	0.08	10:35	GOP	General Operations	Well Turned Over To HES. Pressure Test To 8500#. Equalize, Open To Well.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
10:35	1.17	11:45	FRAC	Frac. Job	<p>Frac Stage 3. Fluid System: Hybor G 16. Chemical Tracer In Sand Stages. Open Well, 1,168 Psi. ICP. BrokeDown At 10.1 Bpm And 3,920 Psi.. Pump 3900 Gals. 15% HCL And 90 Bio Balls, Attempt BallOut. Let Balls Fall. Get Stabilized Injection Of 74.5 Bpm And 5,594 Psi., Get ISIP, 3,065 Psi.. 0.74 Psi./Ft. F.G.. 31/45 Holes.</p> <p>Con't With SlickWater Pad, 48,839 Gals..</p> <p>Stage Into Hybor Pad, 74.8 Bpm At 5,228 Psi..</p> <p>On Perfs, 74.5 Bpm At 5,535 Psi., 12,158 Gals.</p> <p>Stage Into 2.0# 20/40 CRC Prop, 74.5 Bpm At 5,552 Psi..</p> <p>On Perfs, 74.5 Bpm At 5,063 Psi., 11,136 Gals.</p> <p>Stage Into 3.0# 20/40 CRC Prop, 74.5 Bpm At 5,037 Psi..</p> <p>On Perfs, 74.4 Bpm At 4,850 Psi., 17,254 Gals.</p> <p>Stage Into 3.5# 20/40 CRC Prop, 74.3 Bpm At 4,972 Psi..</p> <p>On Perfs, 74.3 Bpm At 4,919 Psi., 15,243 Gals.</p> <p>Stage Into 4.0# 20/40 CRC Prop, 74.2 Bpm At 4,936 Psi..</p> <p>On Perfs, 75.8 Bpm At 5,316 Psi., 7,570 Gals.</p> <p>Stage Into Flush, Flush 15 Bbls. Over Bottom Perf..</p> <p>Get ISDP, 3,702 Psi.. 0.80 Psi./Ft. F.G.. WSI And Secured.</p> <p>Total 20/40 CRC Prop - 150,300#</p> <p>Total Clean - 136,180 Gals.. 3,290 Bbls..</p> <p>Produced Water - 72,837 Gals..</p> <p>2% KCL - 63,361 Gals..</p> <p>BWTR - 3,439 Bbls.</p> <p>Max. Rate - 74.9 Bpm</p> <p>Avg. Rate - 74.4 Bpm</p> <p>Max. Psi. - 5,556 Psi.</p> <p>Avg. Psi. - 5,167 Psi.</p>
11:45	0.08	11:50	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CBP Plug Assembly. Equalize To Well Pressure.
11:50	1.25	13:05	PFRT	Perforating	<p>RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 120 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To HES Combo RBT/RMTE Log Dated 05-24-2013.</p> <p>Found And Correlated To Short Joint At 8,108 - 8,131'.</p> <p>Drop Down To Depth, Set CBP At 10,102'. 2,950 Psi..</p> <p>Perforate Stage 4 CR-2/Wasatch Zone, 9,801 - 10,082'. 45 Holes. 2,250 Psi..</p> <p>POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.</p>
13:05	0.58	13:40	GOP	General Operations	Well Turned Over To HES. Pressure Test To 8500#. Equalize, Open To Well.
13:40	1.08	14:45	FRAC	Frac. Job	<p>Frac Stage 4. Fluid System: Hybor G 16. Chemical Tracer In Sand Stages. Open Well, 2,028 Psi. ICP. BrokeDown At 9.7 Bpm And 3,228 Psi.. Pump 3900 Gals. 15% HCL And 90 Bio Balls, Attempt BallOut. Let Balls Fall. Get Stabilized Injection Of 74.5 Bpm And 4,970 Psi., Get ISIP, 2,786 Psi.. 0.72 Psi./Ft. F.G.. 43/45 Holes.</p> <p>Con't With SlickWater Pad, 49,263 Gals..</p> <p>Stage Into Hybor Pad, 73.9 Bpm At 4,497 Psi..</p> <p>On Perfs, 74.3 Bpm At 4,905 Psi., 12,158 Gals.</p> <p>Stage Into 2.0# 20/40 White Prop, 74.3 Bpm At 4,935 Psi..</p> <p>On Perfs, 74.2 Bpm At 4,487 Psi., 10,827 Gals.</p> <p>Stage Into 3.0# 20/40 White Prop, 74.2 Bpm At 4,456 Psi..</p> <p>On Perfs, 74.1 Bpm At 4,311 Psi., 15,639 Gals.</p> <p>Stage Into 3.5# 20/40 White Prop, 74.1 Bpm At 4,364 Psi..</p> <p>On Perfs, 74.3 Bpm At 4,308 Psi., 11,744 Gals.</p> <p>Stage Into 4.0# 20/40 White Prop, 74.3 Bpm At 4,321 Psi..</p> <p>On Perfs, 74.1 Bpm At 4,195 Psi., 12,190 Gals.</p> <p>Stage Into Flush, Flush 15 Bbls. Over Bottom Perf..</p> <p>Get ISDP, 3,366 Psi.. 0.78 Psi./Ft. F.G.. WSI And Secured.</p> <p>Total 20/40 White Prop - 150,100#</p> <p>Total Clean - 137,163 Gals.. 3,266 Bbls..</p> <p>Produced Water - 72,649 Gals..</p> <p>2% KCL - 62,562 Gals..</p> <p>BWTR - 3,425 Bbls.</p> <p>Max. Rate - 74.6 Bpm</p> <p>Avg. Rate - 74.2 Bpm</p> <p>Max. Psi. - 4,953 Psi.</p> <p>Avg. Psi. - 4,497 Psi.</p>
14:45	0.17	14:55	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CBP Plug Assembly. Equalize To Well Pressure.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
14:55	1.17	16:05	PFRT	Perforating	RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 120 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To HES Combo RBT/RMTE Log Dated 05-24-2013. Found And Correlated To Short Joint At 8,108 - 8,131'. Drop Down To Depth, Set CBP At 9,777'. 2,800 Psi.. Perforate Stage 5 CR-1A Zone, 9,492 - 9,757'. 45 Holes. 2,050 Psi.. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.
16:05	0.09	16:10	GOP	General Operations	Well Turned Over To HES. Pressure Test To 8500#. Equalize, Open To Well.
16:10	1.16	17:20	FRAC	Frac. Job	Frac Stage 5. Fluid System: Hybor G 16 Pumped Chemical Tracer In Sand Stages. Open Well, 1,913 Psi. ICP. BrokeDown At 10.6 Bpm And 2,423 Psi.. Pump 3900 Gals. 15% HCL And 90 Bio Balls, Attempt BallOut. Let Balls Fall. Get Stabilized Injection Of 74.5 Bpm And 3,992 Psi., Get ISIP, 2,226 Psi.. 0.67 Psi./Ft. F.G.. 41/45 Holes. Con't With SlickWater Pad, 48,388 Gals.. Stage Into .75# 100 Mesh Pad, 74.3 Bpm At 3,810 Psi.. On Perfs, 75.0 Bpm At 4,091 Psi., 18,890 Gals. Stage Into 1.0# 20/40 White Prop, 75.0 Bpm At 4,190 Psi.. On Perfs, 75.2 Bpm At 4,000 Psi., 10,447 Gals. Stage Into 2.0# 20/40 White Prop, 75.3 Bpm At 3,960 Psi.. On Perfs, 75.0 Bpm At 3,691 Psi., 10,469 Gals. Stage Into 3.0# 20/40 White Prop, 75.0 Bpm At 3,677 Psi.. On Perfs, 74.7 Bpm At 3,479 Psi., 13,111 Gals. Stage Into 3.5# 20/40 White Prop, 74.7 Bpm At 3,470 Psi.. On Perfs, 74.6 Bpm At 3,361 Psi., 11,379 Gals. Stage Into 4.0# 20/40 White Prop, 74.6 Bpm At 3,337 Psi.. On Perfs, 74.5 Bpm At 3,255 Psi., 11,774 Gals. Stage Into Flush, Flush 15 Bbls. Over Bottom Perf.. Get ISDP, 2,547 Psi.. 0.70 Psi./Ft. F.G.. WSI And Secured. 100 Mesh - 14,000# Total 20/40 White Prop - 150,400# Total Clean - 149,137 Gals.. 3,551 Bbls.. Produced Water - 71,011 Gals. 2% KCL - 76,070 Gals.. BWTR - 3,731 Bbls. Max. Rate - 76.7 Bpm Avg. Rate - 74.5 Bpm Max. Psi. - 4,195 Psi. Avg. Psi. - 3,745 Psi.
17:20	0.17	17:30	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CBP Plug Assembly. Equalize To Well Pressure.
17:30	1.17	18:40	PFRT	Perforating	RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 120 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To HES Combo RBT/RMTE Log Dated 05-24-2013. Found And Correlated To Short Joint At 8,108 - 8,131'. Drop Down To Depth, Set CBP At 9,487'. 1,650 Psi.. Perforate Stage 6 CR-1/UteLand Butte/Castle Peak Zone, 9,277 - 9,467'. 45 Holes. 1,550 Psi.. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.
18:40	11.33	06:00	LOCL	Lock Wellhead & Secure	WSI And Secured. SDFD.

**13-5D-35 BTR 6/13/2013 06:00 - 6/14/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,222.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.25	07:15	LOCL	Lock Wellhead & Secure	HES Crew On Location At 0400 Hrs., Prime Chemical And Fluid Pumps, Pressure Test To 9000 Psi., Ran QC On Fluid, Looks Good.
07:15	0.34	07:35	SMTG	Safety Meeting	Safety Meeting. Talk About Smoking Area, PPE, Escape And Mustering Areas, Communication, And Red Zone.



# Bill Barrett Corporation

## Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
07:35	1.08	08:40	FRAC	Frac. Job	<p>Frac Stage 6. Fluid System: Hybor G 16 Pumped Chemical Tracer In Sand Stages. Open Well, 113 Psi. ICP. BrokeDown At 10.5 Bpm And 1,850 Psi.. Pump 3900 Gals. 15% HCL And 90 Bio Balls, Attempt BallOut. Let Balls Fall. Get Stabilized Injection Of 74.5 Bpm And 4,047 Psi., Get ISIP, 2,255 Psi.. 0.68 Psi./Ft. F.G.. 45/45 Holes.</p> <p>Con't With SlickWater Pad, 49,080 Gals..</p> <p>Stage Into .75# 100 Mesh Pad, 74.5 Bpm At 3,813 Psi..</p> <p>On Perfs, 74.7 Bpm At 4,065 Psi., 19,370 Gals.</p> <p>Stage Into 1.0# 20/40 White Prop, 74.5 Bpm At 4,122 Psi..</p> <p>On Perfs, 74.3 Bpm At 3,985 Psi., 10,147 Gals.</p> <p>Stage Into 2.0# 20/40 White Prop, 74.2 Bpm At 3,965 Psi..</p> <p>On Perfs, 74.0 Bpm At 3,662 Psi., 10,059 Gals.</p> <p>Stage Into 3.0# 20/40 White Prop, 74.0 Bpm At 3,630 Psi..</p> <p>On Perfs, 74.3 Bpm At 3,533 Psi., 13,654 Gals.</p> <p>Stage Into 3.5# 20/40 White Prop, 74.3 Bpm At 3,454 Psi..</p> <p>On Perfs, 74.4 Bpm At 3,431 Psi., 11,154 Gals.</p> <p>Stage Into 4.0# 20/40 White Prop, 74.4 Bpm At 3,433 Psi..</p> <p>On Perfs, 74.2 Bpm At 3,396 Psi., 10,198 Gals.</p> <p>Stage Into Flush, Flush 15 Bbls. Over Bottom Perf..</p> <p>Get ISDP, 2,608 Psi.. 0.72 Psi./Ft. F.G.. WSI And Secured.</p> <p>100 Mesh - 14,000#</p> <p>Total 20/40 White Prop - 148,900#</p> <p>Total Clean - 149,943 Gals.. 3,570 Bbls..</p> <p>Produced Water - 71,674 Gals.</p> <p>2% KCL - 76,382 Gals..</p> <p>BWTR - 3,732 Bbls.</p> <p>Max. Rate - 74.8 Bpm</p> <p>Avg. Rate - 74.3 Bpm</p> <p>Max. Psi. - 4,128 Psi.</p> <p>Avg. Psi. - 3,736 Psi.</p>
08:40	0.17	08:50	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CBP Plug Assembly. Equalize To Well Pressure.
08:50	1.08	09:55	PFRT	Perforating	<p>RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 120 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To HES Combo RBT/RMTE Log Dated 05-24-2013.</p> <p>Found And Correlated To Short Joint At 8,108 - 8,131'.</p> <p>Drop Down To Depth, Set CBP At 9,268'. 1,700 Psi..</p> <p>Perforate Stage 7 Castle Peak Zone, 8,985 - 9,248'. 45 Holes. 1,200 Psi..</p> <p>POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.</p>
09:55	0.08	10:00	GOP	General Operations	Well Turned Over To HES. Pressure Test To 8500#. Equalize, Open To Well.
10:00	1.17	11:10	FRAC	Frac. Job	<p>Frac Stage 7. Fluid System: Hybor G 16 Pumped Chemical Tracer In Sand Stages. Open Well, 800 Psi. ICP. BrokeDown At 10.5 Bpm And 1,641 Psi.. Pump 3900 Gals. 15% HCL And 90 Bio Balls, Attempt BallOut. Let Balls Fall. Get Stabilized Injection Of 74.4 Bpm And 3,352 Psi., Get ISIP, 1,379 Psi.. 0.59 Psi./Ft. F.G.. 45/45 Holes.</p> <p>Con't With SlickWater Pad, 48,294 Gals..</p> <p>Stage Into .75# 100 Mesh Pad, 74.0 Bpm At 3,160 Psi..</p> <p>On Perfs, 74.1 Bpm At 3,345 Psi., 18,694 Gals.</p> <p>Stage Into 1.0# 20/40 White Prop, 74.7 Bpm At 3,327 Psi..</p> <p>On Perfs, 74.0 Bpm At 3,233 Psi., 9,888 Gals.</p> <p>Stage Into 2.0# 20/40 White Prop, 74.0 Bpm At 3,230 Psi..</p> <p>On Perfs, 74.0 Bpm At 2,940 Psi., 9,863 Gals.</p> <p>Stage Into 3.0# 20/40 White Prop, 73.8 Bpm At 2,912 Psi..</p> <p>On Perfs, 75.0 Bpm At 2,677 Psi., 14,617 Gals.</p> <p>Stage Into 3.5# 20/40 White Prop, 74.4 Bpm At 2,562 Psi..</p> <p>On Perfs, 74.7 Bpm At 2,548 Psi., 10,819 Gals.</p> <p>Stage Into 4.0# 20/40 White Prop, 74.7 Bpm At 2,566 Psi..</p> <p>On Perfs, 74.6 Bpm At 2,433 Psi., 15,114 Gals.</p> <p>Stage Into Flush, Flush 15 Bbls. Over Bottom Perf..</p> <p>Get ISDP, 1,983 Psi.. 0.67 Psi./Ft. F.G.. WSI And Secured.</p> <p>100 Mesh - 14,300#</p> <p>Total 20/40 White Prop - 152,200#</p> <p>Total Clean - 150,764 Gals.. 3,590 Bbls..</p> <p>Produced Water - 69,712 Gals.</p> <p>2% KCL - 78,995 Gals..</p> <p>BWTR - 3,798 Bbls.</p> <p>Max. Rate - 75.2 Bpm</p> <p>Avg. Rate - 74.2 Bpm</p> <p>Max. Psi. - 3,377 Psi.</p> <p>Avg. Psi. - 2,979 Psi.</p>



**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
11:10	0.25	11:25	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up CBP Plug Assembly. Equalize To Well Pressure.
11:25	0.92	12:20	PFRT	Perforating	RIH With 3 1/8" Sinker Bar And CBP Plug Assembly. Correlating To HES Combo RBT/RMTE Log Dated 05-24-2013. Found And Correlated To Short Joint At 8,108 - 8,131'. Drop Down To Depth, Set CBP At 9,268'. 850 Psi.. Bleed Pressure Off Well. POOH. LayDown Tools, WSI And Secured.
12:20	2.17	14:30	SRIG	Rig Up/Down	RigDown WireLine And Frac Crews, MOL.
14:30	15.50	06:00	LOCL	Lock Wellhead & Secure	WSI And Secured. Batch Water. Moving Tanks. SDFD.

**13-5D-35 BTR 6/14/2013 06:00 - 6/15/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,222.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL. HOLD SAFETY MEETING.
07:00	1.00	08:00	SRIG	Rig Up/Down	MIRU RIG & EQUIPMENT.
08:00	3.00	11:00	BOPI	Install BOP's	SIWP- 0. N/D FRAC TREE. N/U BOP & HYDRILL. R/U FLOOR & EQUIPMENT. SPOT CATWALK & PIPE RACKS. LOAD 362 JTS ON RACKS & TALLY TBG.
11:00	3.50	14:30	RUTB	Run Tubing	P/U 4-3/4 BIT, POBS, 1 JT 2-7/8 TBG & 2.31 XN- NIPPLE. RIH TO 4770'. ATTEMPT TO PUMP DOWN TBG, PRESSURE UP TO 850 PSI. NO BLEED OFF.
14:30	2.00	16:30	PULT	Pull Tubing	POOH W/ BIT. PLUGGED W/ 2' OF DRILLING MUD & RUST OFF OF TBG.
16:30	3.50	20:00	RUTB	Run Tubing	RIH W/ BIT TO 4770' W/ TBG OUT OF DERRICK. CONTINUE RIH P/U TBG TO KILL PLUG @ 8950'. FLUSH TBG. SDFN.
20:00	10.00	06:00	LOCL	Lock Wellhead & Secure	WELL SECURE. CREW TRAVEL.

**13-5D-35 BTR 6/15/2013 06:00 - 6/16/2013 06:00**

API/UWI 43-013-51600	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,222.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL. HOLD SAFETY MEETING.
07:00	7.00	14:00	DOPG	Drill Out Plugs	R/U SWIVEL. BREAK CIRC. TEST BOPE & CIRC EQUIPMENT TO 2500 PSI, HELD. D/O KILL PLUG @ 8950'. FCP- 0.  SWIVEL IN HOLE. TAG SAND @ 9258'. C/O SAND & D/O CBP @ 9268'. FCP- 0.  SWIVEL IN HOLE. TAG SAND @ 8460'. C/O SAND & D/O CBP @ 9487'. FCP- 0.  SWIVEL IN HOLE. TAG SAND @ 9769'. C/O SAND & D/O CBP @ 9777'. FCP- 450 ON 32/64 CHOKE.  SWIVEL IN HOLE. TAG SAND @ 10,083'. C/O SAND & D/O CBP @ 10,102'. FCP- 1100 ON 32/64 CHOKE.  SWIVEL IN HOLE. TAG SAND @ 10,332'. C/O SAND & D/O CBP @ 10,366'. FCP- 1200 ON 32/64 CHOKE.  SWIVEL IN HOLE. TAG SAND @ 10,622'. C/O SAND & D/O CBP @ 10,718'. FCP- 1350 ON 32/64 CHOKE.  SWIVEL IN HOLE, TAG SAND @ 11,113'. C/O TO FLOAT COLLAR @ 11,132'. D/O F/C. D/O CMT TO 11,187' PBTD. JT 351 ALL THE WAY IN. CIRC WELL CLEAN. R/D SWIVEL.
14:00	1.50	15:30	PULT	Pull Tubing	PULL ABOVE PERFS L/D 2-7/8 TBG TO 8907' & LAND TBG. 279 JTS TOTAL IN HOLE.
15:30	1.00	16:30	IWHD	Install Wellhead	R/D FLOOR. N/D BOPE. N/U WELLHEAD. DROP BALL DOWN TBG & PUMPED BIT OFF. R/U TBG TO SALES LINE. TURN OVER TO FLOW BACK.

**Bill Barrett Corporation****Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
16:30	3.00	19:30	SRIG	Rig Up/Down	R/D RIG & EQUIPMENT. MOL. RIG STAGE ON 13H-13-46 BTR. SDFN.
19:30	10.50	06:00	LOCL	Lock Wellhead & Secure	WELL SECURE. TBG FLOWING TO SALES.

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 1420H626526
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>1. TYPE OF WELL</b> Oil Well	<b>8. WELL NAME and NUMBER:</b> 13-5D-35 BTR	
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP	<b>9. API NUMBER:</b> 43013516000000	
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202	<b>PHONE NUMBER:</b> 303 312-8134 Ext	<b>9. FIELD and POOL or WILDCAT:</b> ALTAMONT
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0609 FSL 0993 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWSW Section: 05 Township: 03.0S Range: 05.0W Meridian: U		<b>COUNTY:</b> DUCHESNE
		<b>STATE:</b> UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: <b>11/1/2013</b>	<input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input checked="" type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION  OTHER: <input type="text"/>
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:			
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:			
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The tribal lease has been earned for this well. The new lease number is  
 14 20 H62 6526

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 March 31, 2015

<b>NAME (PLEASE PRINT)</b> Brady Riley	<b>PHONE NUMBER</b> 303 312-8115	<b>TITLE</b> Permit Analyst
<b>SIGNATURE</b> N/A		<b>DATE</b> 3/26/2015

Effective Date: 11/1/2016

<b>FORMER OPERATOR:</b>	<b>NEW OPERATOR:</b>
Bill Barrett Corporation 1099 18th Street, Suite 2300 Denver, CO 80202	Rig II, LLC 1582 West 2600 South Woods Cross, UT 84087
CA Number(s):	Unit(s):

**WELL INFORMATION:**

Well Name	Sec	TWN	RNG	API	Entity	Mineral	Surface	Type	Status
See Attached List									

**OPERATOR CHANGES DOCUMENTATION:**

1. Sundry or legal documentation was received from the **FORMER** operator on: 10/21/2016
2. Sundry or legal documentation was received from the **NEW** operator on: 10/21/2016
3. New operator Division of Corporations Business Number: 8256968-0160

**REVIEW:**

1. Surface Agreement Sundry from **NEW** operator on Fee Surface wells received on: N/A
2. Receipt of Acceptance of Drilling Procedures for APD on: 10/21/2016
3. Reports current for Production/Disposition & Sundries: 11/2/2016
4. OPS/SI/TA well(s) reviewed for full cost bonding: 11/3/2016
5. UIC5 on all disposal/injection/storage well(s) approved on: 11/3/2016
6. Surface Facility(s) included in operator change: None
7. Inspections of PA state/fee well sites complete on (only upon operators request): 11/3/2016

**NEW OPERATOR BOND VERIFICATION:**

1. Federal well(s) covered by Bond Number: UTB000712
2. Indian well(s) covered by Bond Number: LPM 922467
3. State/fee well(s) covered by Bond Number(s): 9219529

**DATA ENTRY:**

1. Well(s) update in the **OGIS** on: 11/7/2016
2. Entity Number(s) updated in **OGIS** on: 11/7/2016
3. Unit(s) operator number update in **OGIS** on: N/A
4. Surface Facilities update in **OGIS** on: N/A
5. State/Fee well(s) attached to bond(s) in **RBDMS** on: 11/7/2016
6. Surface Facilities update in **RBDMS** on: N/A

**COMMENTS:**

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

Well Name	Sec	TWN	RNG	API Number	Entity	Mineral	Surface	Type	Status
SWD 9-36 BTR	9	030S	060W	4301350646	18077	Indian	Fee	WD	A
16-6D-46 BTR SWD	6	040S	060W	4301350781	18327	Indian	Fee	WD	A
6-32-36 BTR SWD	32	030S	060W	4301350921	18329	Indian	Fee	WD	A
LC TRIBAL 8-26D-47	26	040S	070W	4301334024		Indian	Indian	OW	APD
16-21D-37 BTR	21	030S	070W	4301350758		Indian	Fee	OW	APD
14-11D-37 BTR	11	030S	070W	4301350862		Indian	Fee	OW	APD
7-17D-46 BTR	17	040S	060W	4301350883		Indian	Indian	OW	APD
14-12D-37 BTR	12	030S	070W	4301350894		Indian	Fee	OW	APD
1-18D-36 BTR	18	030S	060W	4301350922		Indian	Fee	OW	APD
13-2D-45 BTR	2	040S	050W	4301350931		Indian	Indian	OW	APD
5H-16-46 BTR	16	040S	060W	4301350992		Indian	Indian	OW	APD
9H-17-45 BTR	17	040S	050W	4301351098		Indian	Indian	OW	APD
13H-8-46 BTR UB	8	040S	060W	4301351124		Indian	Indian	OW	APD
8H-9-46 BTR	9	040S	060W	4301351140		Indian	Indian	OW	APD
LC TRIBAL 7-31D-37	31	030S	070W	4301351147		Indian	Fee	OW	APD
14-16D-45 BTR	16	040S	050W	4301351178		Indian	Indian	OW	APD
16-19D-37 BTR	19	030S	070W	4301351179		Indian	Fee	OW	APD
6-2D-45 BTR	2	040S	050W	4301351234		Indian	Indian	OW	APD
2-2D-45 BTR	2	040S	050W	4301351235		Indian	Indian	OW	APD
10-26-35 BTR	26	030S	050W	4301351248		Indian	Fee	OW	APD
LC TRIBAL 1H-33-46	33	040S	060W	4301351257		Indian	Fee	OW	APD
LC TRIBAL 9-25D-46	25	040S	060W	4301351276		Indian	Indian	OW	APD
LC TRIBAL 8H-30-45	30	040S	050W	4301351277		Indian	Indian	OW	APD
LC TRIBAL 16H-30-45	30	040S	050W	4301351279		Indian	Indian	OW	APD
LC TRIBAL 13-30D-45	30	040S	050W	4301351282		Indian	Indian	OW	APD
LC TRIBAL 16H-36-46	36	040S	060W	4301351291		Indian	Indian	OW	APD
LC TRIBAL 13H-30-46	30	040S	060W	4301351321		Indian	Indian	OW	APD
LC TRIBAL 13H-31-46	31	040S	060W	4301351326		Indian	Indian	OW	APD
LC TRIBAL 16-31D-46	31	040S	060W	4301351328		Indian	Indian	OW	APD
LC TRIBAL 5H-26-47	26	040S	070W	4301351337		Indian	Indian	OW	APD
LC TRIBAL 5H-19-45	20	040S	050W	4301351349		Indian	Indian	OW	APD
LC TRIBAL 16-36D-47	36	040S	070W	4301351363		Indian	Indian	OW	APD
15-4D-47 BTR	4	040S	070W	4301351377		Indian	Fee	OW	APD
16-23D-46 LC TRIBAL	23	040S	060W	4301351396		Indian	Fee	OW	APD
15-2D-36 BTR	2	030S	060W	4301351419		Indian	Fee	OW	APD
16-23D-37 BTR	23	030S	070W	4301351420		Indian	Fee	OW	APD
11-9D-47 BTR	9	040S	070W	4301351422		Indian	Fee	OW	APD
15-13D-47 BTR	13	040S	070W	4301351424		Indian	Indian	OW	APD
LC TRIBAL 15-19D-46	19	040S	060W	4301351426		Indian	Indian	OW	APD
16-13D-45 BTR	13	040S	050W	4301351428		Indian	Indian	OW	APD



From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

14-12D-45 BTR	12	040S	050W	4301351444		Indian	Indian	OW	APD
16-14D-45 BTR	14	040S	050W	4301351445		Indian	Indian	OW	APD
5-13D-45 BTR	13	040S	050W	4301351446		Indian	Indian	OW	APD
LC TRIBAL 16-26D-46	26	040S	060W	4301351450		Indian	State	OW	APD
LC TRIBAL 16-34D-46	34	040S	060W	4301351451		Indian	State	OW	APD
16-12D-45 BTR	12	040S	050W	4301351452		Indian	Indian	OW	APD
8-12D-45 BTR	12	040S	050W	4301351453		Indian	Indian	OW	APD
LC TRIBAL 1-35D-46	35	040S	060W	4301351454		Indian	Fee	OW	APD
16-25D-37 BTR	25	030S	070W	4301351455		Indian	Fee	OW	APD
LC TRIBAL 13H-29-46	28	040S	060W	4301351462		Indian	Fee	OW	APD
LC TRIBAL 14-30D-37	30	030S	070W	4301351494		Indian	Fee	OW	APD
7-13D-45 BTR	13	040S	050W	4301351497		Indian	Indian	OW	APD
LC TRIBAL 4H-35-46	35	040S	060W	4301351515		Indian	Fee	OW	APD
LC TRIBAL 13H-19-46	19	040S	060W	4301351543		Indian	Indian	OW	APD
16-26D-37 BTR	26	030S	070W	4301351598		Indian	Fee	OW	APD
LC TRIBAL 16-31D-37	31	030S	070W	4301351610		Indian	Fee	OW	APD
5-4-35 BTR	4	030S	050W	4301351613		Indian	Fee	OW	APD
LC TRIBAL 16-31D-47	31	040S	070W	4301351616		Indian	Indian	OW	APD
LC TRIBAL 13H-31-47	31	040S	070W	4301351617		Indian	Indian	OW	APD
LC TRIBAL 13-32D-47	32	040S	070W	4301351619		Indian	Indian	OW	APD
LC TRIBAL 16H-32-47	32	040S	070W	4301351620		Indian	Indian	OW	APD
LC TRIBAL 1-32D-47	32	040S	070W	4301351624		Indian	Indian	OW	APD
LC TRIBAL 4H-32-47	32	040S	070W	4301351625		Indian	Indian	OW	APD
LC TRIBAL 13-28D-47	28	040S	070W	4301351627		Indian	Indian	OW	APD
LC TRIBAL 13H-29-47	28	040S	070W	4301351628		Indian	Indian	OW	APD
LC TRIBAL 16H-28-47	28	040S	070W	4301351629		Indian	Indian	OW	APD
LC TRIBAL 1-28D-47	28	040S	070W	4301351639		Indian	Indian	OW	APD
LC TRIBAL 1H-27-47	28	040S	070W	4301351640		Indian	Indian	OW	APD
LC TRIBAL 4H-28-47	28	040S	070W	4301351641		Indian	Indian	OW	APD
LC TRIBAL 7-25D-58	25	050S	080W	4301351643		Indian	Indian	OW	APD
LC TRIBAL 6-25D-58	25	050S	080W	4301351644		Indian	Indian	OW	APD
LC TRIBAL 13H-24-58	24	050S	080W	4301351645		Indian	Indian	OW	APD
LC TRIBAL 16-24D-58	24	050S	080W	4301351646		Indian	Indian	OW	APD
LC Tribal 8-23D-46	23	040S	060W	4301351654		Indian	Fee	OW	APD
LC Tribal 16-35D-45	35	040S	050W	4301351656		Indian	Fee	OW	APD
LC Tribal 13H-35-45	35	040S	050W	4301351657		Indian	Fee	OW	APD
LC Tribal 16-36D-45	36	040S	050W	4301351658		Indian	Fee	OW	APD
LC Tribal 13H-36-45	36	040S	050W	4301351659		Indian	Fee	OW	APD
LC Tribal 5-36D-45	36	040S	050W	4301351661		Indian	Fee	OW	APD
LC Tribal 8-26D-46	26	040S	060W	4301351663		Indian	Fee	OW	APD
3-29D-36 BTR	29	030S	060W	4301351665		Indian	Fee	OW	APD

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

LC Tribal 5-35D-45	35	040S	050W	4301351666	Indian	Fee	OW	APD
LC Tribal 5-24D-46	24	040S	060W	4301351668	Indian	Indian	OW	APD
LC TRIBAL 6-12D-58	12	050S	080W	4301351696	Indian	Indian	OW	APD
LC TRIBAL 8-12D-58	12	050S	080W	4301351697	Indian	Indian	OW	APD
LC TRIBAL 16H-22-47	21	040S	070W	4301351700	Indian	Indian	OW	APD
5-25D-37 BTR	25	030S	070W	4301351803	Indian	Fee	OW	APD
8-3D-36 BTR	3	030S	060W	4301351804	Indian	Fee	OW	APD
14-26D-37 BTR	26	030S	070W	4301351805	Indian	Fee	OW	APD
9-4-35 BTR	4	030S	050W	4301351806	Indian	Fee	OW	APD
11-4D-35 BTR	4	030S	050W	4301351807	Indian	Fee	OW	APD
16-27D-37 BTR	27	030S	070W	4301351808	Indian	Fee	OW	APD
14-27D-37 BTR	27	030S	070W	4301351809	Indian	Fee	OW	APD
14-16D-46 BTR	16	040S	060W	4301351812	Indian	Indian	OW	APD
LC Tribal 16-35D-48	35	040S	080W	4301351847	Indian	Indian	OW	APD
LC Tribal 13H-35-48	35	040S	080W	4301351848	Indian	Indian	OW	APD
LC Tribal 13-2D-58	11	050S	080W	4301351850	Indian	Indian	OW	APD
5-13D-36 BTR	13	030S	060W	4301351862	Indian	Fee	OW	APD
5-8D-36 BTR	8	030S	060W	4301351871	Indian	Fee	OW	APD
16-1D-36 BTR	1	030S	060W	4301351872	Indian	Fee	OW	APD
8-18D-46 BTR	18	040S	060W	4301351897	Indian	Fee	OW	APD
LC Tribal 5-36D-46	36	040S	060W	4301351905	Indian	Indian	OW	APD
LC Tribal 5-26D-45	26	040S	050W	4301351907	Indian	Indian	OW	APD
14-13D-45 BTR	13	040S	050W	4301351974	Indian	Indian	OW	APD
14-34D-46 DLB	34	040S	060W	4301351975	Indian	Fee	OW	APD
LC Tribal 5-21D-45	21	040S	050W	4301352001	Indian	Indian	OW	APD
LC Tribal 8-22D-45	22	040S	050W	4301352002	Indian	Indian	OW	APD
LC Tribal 8-25D-45	25	040S	050W	4301352007	Indian	Indian	OW	APD
LC Tribal 16-25D-45	25	040S	050W	4301352008	Indian	Indian	OW	APD
LC Tribal 16-22D-45	22	040S	050W	4301352009	Indian	Indian	OW	APD
LC Tribal 16-26D-45	26	040S	050W	4301352010	Indian	Indian	OW	APD
LC Tribal 14-31D-37	31	030S	070W	4301352016	Indian	Fee	OW	APD
5-12D-45 BTR	12	040S	050W	4301352030	Indian	Indian	OW	APD
LC Tribal 9-20D-45	20	040S	050W	4301352031	Indian	Indian	OW	APD
LC Tribal 13-35D-47	35	040S	070W	4301352055	Indian	Indian	OW	APD
LC Tribal 1-23D-47	23	040S	070W	4301352057	Indian	Indian	OW	APD
9-17D-46 BTR	17	040S	060W	4301352059	Indian	Indian	OW	APD
11-18D-46 BTR	18	040S	060W	4301352060	Indian	Indian	OW	APD
9-10D-47 BTR	10	040S	070W	4301352092	Indian	Fee	OW	APD
LC Tribal 1-17D-47	17	040S	070W	4301352096	Indian	Fee	OW	APD
7-35D-37 BTR	35	030S	070W	4301352115	Indian	Fee	OW	APD
14-25D-37 BTR	25	030S	070W	4301352116	Indian	Fee	OW	APD

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

LC Tribal 5-25-46	25	040S	060W	4301352126	Indian	Indian	OW	APD
8-33D-35 BTR	33	030S	050W	4301352161	Indian	Fee	OW	APD
5-4D-36 BTR	4	030S	060W	4301352175	Indian	Fee	OW	APD
7-4D-36 BTR	4	030S	060W	4301352176	Indian	Fee	OW	APD
LC Tribal 4-36D-47	36	040S	070W	4301352186	Indian	Indian	OW	APD
LC Tribal 4-22D-46	22	040S	060W	4301352944	Indian	Indian	OW	APD
LC Tribal 16-22D-46	22	040S	060W	4301352945	Indian	Indian	OW	APD
LC Tribal 11-19D-46	19	040S	060W	4301352946	Indian	Indian	OW	APD
LC Tribal 7-20D-45	20	040S	050W	4301352947	Indian	Indian	OW	APD
15-11D-35 BTR	11	030S	050W	4301353056	Indian	Fee	OW	APD
13-11D-35 BTR	11	030S	050W	4301353057	Indian	Fee	OW	APD
BTR 16-36D-37	36	030S	070W	4301353059	Indian	Fee	OW	APD
4-29D-35 BTR	30	030S	050W	4301353060	Indian	Fee	OW	APD
1-30D-35 BTR	30	030S	050W	4301353061	Fee	Fee	OW	APD
LC TRIBAL 3-23D-46	23	040S	060W	4301353066	Indian	State	OW	APD
LC Tribal 14-23D-46	23	040S	060W	4301353067	Indian	State	OW	APD
LC Tribal 13-25D-46	25	040S	060W	4301353068	Indian	Indian	OW	APD
LC Tribal 14-26D-46	26	040S	060W	4301353069	Indian	State	OW	APD
LC Tribal 5-26D-46	26	040S	060W	4301353070	Indian	State	OW	APD
LC Tribal 11-35D-45	35	040S	050W	4301353071	Indian	State	OW	APD
LC Tribal 7-35D-45	35	040S	050W	4301353072	Indian	State	OW	APD
LC Tribal 3-35D-45	35	040S	050W	4301353075	Indian	State	OW	APD
LC Tribal 14-36D-45	36	040S	050W	4301353076	Indian	State	OW	APD
LC Tribal 13-36D-45	36	040S	050W	4301353077	Indian	State	OW	APD
LC Tribal 10-36D-45	36	040S	050W	4301353078	Indian	State	OW	APD
LC Tribal 8-36D-45	36	040S	050W	4301353079	Indian	State	OW	APD
LC Tribal 6-36D-45	36	040S	050W	4301353080	Indian	State	OW	APD
LC Tribal 1-34D-46	34	040S	060W	4301353081	Indian	State	OW	APD
LC Tribal 9-27D-46	27	040S	060W	4301353082	Indian	State	OW	APD
LC Tribal 13-35D-45	35	040S	050W	4301353083	Indian	State	OW	APD
LC Tribal 8-35D-45	35	040S	050W	4301353084	Indian	State	OW	APD
LC Tribal 15-35D-45	35	040S	050W	4301353085	Indian	State	OW	APD
LC Tribal 12-25D-45	25	040S	050W	4301353122	Indian	Indian	OW	APD
LC Tribal 14-25D-45	25	040S	050W	4301353123	Indian	Indian	OW	APD
LC Tribal 10-25D-45	25	040S	050W	4301353124	Indian	Indian	OW	APD
LC Tribal 11-26-45	26	040S	050W	4301353125	Indian	Indian	OW	APD
LC Tribal 13-26D-45	26	040S	050W	4301353126	Indian	Indian	OW	APD
LC Tribal 7-31D-46	31	040S	060W	4301353127	Indian	Indian	OW	APD
LC Tribal 7-19D-45	19	040S	050W	4301353128	Indian	Indian	OW	APD
LC Tribal 5-19D-45	19	040S	050W	4301353130	Indian	Indian	OW	APD
LC Tribal 7-25D-46	25	040S	060W	4301353132	Indian	Indian	OW	APD

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

LC Tribal 7-24D-46	24	040S	060W	4301353134		Indian	Indian	OW	APD
LC Tribal 14-31D-46	31	040S	060W	4301353135		Indian	Indian	OW	APD
LC Tribal 14-30D-46	30	040S	060W	4301353136		Indian	Indian	OW	APD
13-4-35 BTR SWD	4	030S	050W	4301353293		Fee	Fee	OW	APD
LC FEE 14-26D-47	26	040S	070W	4301353294		Fee	Indian	OW	APD
LC Fee 5-25D-47	25	040S	070W	4301353295		Fee	Indian	OW	APD
7-35-46 LC SWD	35	040S	060W	4301353296		Fee	Fee	OW	APD
LC Fee 1H-33-47	32	040S	070W	4301353309		Fee	Indian	OW	APD
LC FEE 14-2D-58	2	050S	080W	4301353312		Fee	Indian	OW	APD
LC FEE 13H-21-47	21	040S	070W	4301353313		Fee	Indian	OW	APD
LC Fee 16-21D-47	21	040S	070W	4301353326		Fee	Indian	OW	APD
16-7D-46 BTR	7	040S	060W	4301353328		Fee	Indian	OW	APD
LC Fee 15-26D-47	26	040S	070W	4301353331		Fee	Indian	OW	APD
LC Fee 4-24D-47	23	040S	070W	4301353332		Fee	Indian	OW	APD
LC Fee 5-34D-47	34	040S	070W	4301353333		Fee	Indian	OW	APD
LC Fee 5-35D-47	35	040S	070W	4301353334		Fee	Indian	OW	APD
13-34D-47 LC Fee	34	040S	070W	4301353337		Fee	Indian	OW	APD
14-35D-35 BTR	35	030S	050W	4301352120		Fee	Fee	OW	DRL
6-17D-46 BTR	17	040S	060W	4301351078		Indian	Indian	OW	OPS
5-34D-35 BTR	34	030S	050W	4301351187		Indian	Fee	OW	OPS
5-10D-45 BTR	10	040S	050W	4301351221		Indian	Indian	OW	OPS
5-3D-45 BTR	3	040S	050W	4301351810		Indian	Indian	OW	OPS
9-34D-35 BTR	34	030S	050W	4301352117		Fee	Fee	OW	OPS
5-35D-35 BTR	35	030S	050W	4301352118		Fee	Fee	OW	OPS
1-2D-46 BTR	2	040S	060W	4301353086		Indian	Fee	OW	OPS
7-21-46 DLB	21	040S	060W	4301333567	16526	Indian	Indian	OW	P
LC TRIBAL 1H-27-46	27	040S	060W	4301333568	18175	Indian	Fee	GW	P
7-29-46 DLB	29	040S	060W	4301333584	17603	Indian	Fee	GW	P
LC TRIBAL 12H-28-46	28	040S	060W	4301333631	18132	Indian	Indian	GW	P
LC TRIBAL 13H-21-46	21	040S	060W	4301333632	18107	Indian	Indian	GW	P
12-36-36 BTR	36	030S	060W	4301333638	16336	Indian	Fee	GW	P
5-5-46 BTR	5	040S	060W	4301333639	16542	Indian	Fee	OW	P
5-23-36 BTR	23	030S	060W	4301333642	16675	Indian	Fee	GW	P
14-29-36 BTR	29	030S	060W	4301333643	16725	Indian	Fee	OW	P
14-30-36 BTR	30	030S	060W	4301333644	16701	Indian	Fee	GW	P
7-20-46 DLB	20	040S	060W	4301333657	16584	Indian	Indian	OW	P
LC TRIBAL 5-21D-46	21	040S	060W	4301333658	18887	Indian	Indian	OW	P
5-20-46 DLB	20	040S	060W	4301333659	18750	Indian	Indian	GW	P
LC TRIBAL 13H-20-46	20	040S	060W	4301333678	17979	Indian	Indian	GW	P
14-7-46 BTR	7	040S	060W	4301333806	16890	Indian	Indian	GW	P
7-8-45 BTR	8	040S	050W	4301333820	16974	Indian	Indian	OW	P

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

1-5-45 BTR	5	040S	050W	4301333868	16931	Indian	Indian	OW	P
5-16-36 BTR	16	030S	060W	4301333970	17195	Indian	Fee	OW	P
5-29-36 BTR	29	030S	060W	4301333972	17557	Indian	Fee	OW	P
4-30-36 BTR	30	030S	060W	4301333973	17249	Indian	Fee	OW	P
7-19-46 DLB	19	040S	060W	4301334004	19018	Indian	Indian	OW	P
5-25-36 BTR	25	030S	060W	4301334021	17126	Fee	Fee	OW	P
5-4-45 BTR	4	040S	050W	4301334089	17507	Indian	Indian	OW	P
13-2-46 BTR	2	040S	060W	4301334090	18618	Indian	Indian	OW	P
2-3-45 BTR	3	040S	050W	4301334099	17932	Indian	Indian	OW	P
7-6-45 BTR	6	040S	050W	4301334100	17653	Indian	Indian	OW	P
1-9-45 BTR	9	040S	050W	4301334101	17910	Indian	Indian	OW	P
8-10-45 BTR	10	040S	050W	4301334102	17530	Indian	Indian	OW	P
7-17-45 BTR	17	040S	050W	4301334104	17933	Indian	Indian	OW	P
16-7-45 BTR	7	040S	050W	4301334111	17665	Indian	Indian	OW	P
15-18-45 BTR	18	040S	050W	4301334112	17832	Indian	Indian	OW	P
6-12-46 BTR	12	040S	060W	4301334114	17964	Indian	Indian	OW	P
5-13-46 BTR	13	040S	060W	4301334115	17833	Indian	Indian	OW	P
16-26-36 BTR	26	030S	060W	4301334132	18028	Indian	Fee	OW	P
1-23-36 BTR	23	030S	060W	4301334136	17722	Indian	Fee	OW	P
15-10-36 BTR	10	030S	060W	4301334277	17419	Indian	Fee	OW	P
14-5-46 BTR	5	040S	060W	4301350307	17624	Fee	Fee	OW	P
14X-22-46 DLB	22	040S	060W	4301350351	17604	Indian	Indian	OW	P
16-13-36 BTR	13	030S	060W	4301350372	17853	Indian	Fee	OW	P
5-33-46 DLB	33	040S	060W	4301350397	17765	Indian	Fee	OW	P
5-34-46 DLB	34	040S	060W	4301350415	17801	Indian	State	GW	P
LC FEE 12H-32-46	32	040S	060W	4301350431	18003	Fee	Fee	OW	P
1-13D-47 BTR	13	040S	070W	4301350445	18205	Indian	Fee	OW	P
16-8D-45 BTR	8	040S	050W	4301350466	18799	Indian	Indian	OW	P
7-13D-46 BTR	13	040S	060W	4301350470	18076	Indian	Indian	OW	P
14-8D-45 BTR	8	040S	050W	4301350567	18207	Indian	Indian	OW	P
14-5D-45 BTR	5	040S	050W	4301350568	18108	Indian	Indian	OW	P
16-31D-36 BTR	31	030S	060W	4301350573	18004	Indian	Fee	OW	P
5-7D-46 BTR	7	040S	060W	4301350574	18176	Indian	Indian	OW	P
LC TRIBAL 13H-33-46	34	040S	060W	4301350575	18223	Indian	State	OW	P
5-8-45 BTR	8	040S	050W	4301350607	18279	Indian	Indian	OW	P
16-6D-45 BTR	6	040S	050W	4301350610	18177	Indian	Indian	OW	P
5-18D-45 BTR	18	040S	050W	4301350611	18300	Indian	Indian	OW	P
7-26-37 BTR	26	030S	070W	4301350641	18131	Indian	Fee	OW	P
3-11D-36 BTR	11	030S	060W	4301350642	18299	Indian	Fee	OW	P
16-1D-46 BTR	1	040S	060W	4301350675	18525	Indian	Indian	OW	P
14-3-45 BTR	3	040S	050W	4301350676	18363	Indian	Indian	OW	P



From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

4-17D-45 BTR	17	040S	050W	4301350687	18517	Indian	Indian	OW	P
5-6D-45 BTR	6	040S	050W	4301350688	18726	Indian	Indian	OW	P
7-7D-45 BTR	7	040S	050W	4301350689	18380	Indian	Indian	OW	P
14-10D-45 BTR	10	040S	050W	4301350754	18447	Indian	Indian	OW	P
14-9D-45 BTR	9	040S	050W	4301350755	18379	Indian	Indian	OW	P
13-16D-36 BTR	16	030S	060W	4301350757	18206	Indian	State	OW	P
5-9D-36 BTR	9	030S	060W	4301350843	18381	Indian	Fee	OW	P
16-5D-46 BTR	5	040S	060W	4301350844	18280	Fee	Fee	OW	P
5-27D-37 BTR	27	030S	070W	4301350847	18526	Indian	Fee	OW	P
7-4D-45 BTR	4	040S	050W	4301350884	18562	Indian	Indian	OW	P
2-16D-45 BTR	16	040S	050W	4301350899	18619	Indian	Indian	OW	P
16-10D-45 BTR	10	040S	050W	4301350902	18725	Indian	Indian	OW	P
5-2D-36 BTR	2	030S	060W	4301350913	18886	Indian	Fee	OW	P
13H-27-36 BTR	27	030S	060W	4301350918	18445	Indian	State	OW	P
8-16D-46 BTR	16	040S	060W	4301350953	19027	Indian	Indian	OW	P
16-16D-46 BTR	16	040S	060W	4301350956	19028	Indian	Indian	OW	P
16-9D-45 BTR	9	040S	050W	4301350962	18662	Indian	Indian	OW	P
14-31D-36 BTR	31	030S	060W	4301350973	18524	Indian	Fee	OW	P
5-10D-36 BTR	10	030S	060W	4301350978	18989	Indian	Fee	OW	P
1-32D-36 BTR	32	030S	060W	4301350979	18648	Indian	Fee	OW	P
16-12D-36 BTR	12	030S	060W	4301350980	18748	Indian	Fee	OW	P
2-18D-45 BTR	18	040S	050W	4301350991	18776	Indian	Indian	OW	P
3-1-46 BTR	1	040S	060W	4301351017	18777	Indian	Fee	OW	P
10-5-45 BTR	5	040S	050W	4301351062	18724	Indian	Indian	OW	P
12-4D-45 BTR	4	040S	050W	4301351063	18813	Indian	Indian	OW	P
1-10D-45 BTR	10	040S	050W	4301351064	18966	Indian	Indian	OW	P
16-2D-46 BTR	2	040S	060W	4301351079	18830	Indian	Indian	OW	P
9H-4-45 BTR	4	040S	050W	4301351092	18814	Indian	Indian	OW	P
12-17-45 BTR	17	040S	050W	4301351097	18984	Indian	Indian	OW	P
5-9D-46 BTR	9	040S	060W	4301351109	19313	Indian	Fee	OW	P
14-9D-36 BTR	9	030S	060W	4301351144	19004	Indian	Fee	OW	P
5-31D-36 BTR	31	030S	060W	4301351146	18691	Indian	Fee	OW	P
4-9D-45 BTR	9	040S	050W	4301351157	18883	Indian	Indian	OW	P
8-12D-46 BTR	12	040S	060W	4301351159	18911	Indian	Indian	OW	P
LC TRIBAL 16-23D-47	23	040S	070W	4301351180	18617	Indian	Indian	OW	P
14-7D-45 BTR	7	040S	050W	4301351222	18949	Indian	Indian	OW	P
5-16D-45 BTR	16	040S	050W	4301351223	18987	Indian	Indian	OW	P
4-5D-45 BTR	5	040S	050W	4301351242	18882	Indian	Indian	OW	P
LC TRIBAL 16H-19-45	19	040S	050W	4301351278	18627	Indian	Indian	OW	P
LC TRIBAL 13-19D-45	19	040S	050W	4301351280	18628	Indian	Indian	OW	P
LC TRIBAL 5-30D-45	30	040S	050W	4301351281	19448	Indian	Indian	OW	P

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

LC TRIBAL 15-24D-46	24	040S	060W	4301351283	18626	Indian	Indian	OW	P
LC TRIBAL 13H-24-46	19	040S	050W	4301351289	18629	Indian	Indian	OW	P
7-16-47 BTR	16	040S	070W	4301351296	18950	Indian	Fee	OW	P
14-18D-45 BTR	18	040S	050W	4301351313	19005	Indian	Indian	OW	P
LC TRIBAL 16-30D-46	30	040S	060W	4301351320	19006	Indian	Indian	OW	P
LC TRIBAL 5-20D-45	20	040S	050W	4301351331	19449	Indian	Indian	OW	P
11-8D-46 BTR	8	040S	060W	4301351336	19314	Indian	Indian	OW	P
5-7D-45 BTR	7	040S	050W	4301351350	18951	Indian	Indian	OW	P
7-5-35 BTR	5	030S	050W	4301351599	19078	Indian	Fee	OW	P
13-5D-35 BTR	5	030S	050W	4301351600	18996	Indian	Fee	OW	P
11-5D-35 BTR	5	030S	050W	4301351601	19061	Fee	Fee	OW	P
15-5D-35 BTR	5	030S	050W	4301351602	19062	Fee	Fee	OW	P
9-5D-35 BTR	5	030S	050W	4301351609	19029	Indian	Fee	OW	P
3-5D-35 BTR	5	030S	050W	4301351638	19079	Indian	Fee	OW	P
7-8-46 BTR	8	040S	060W	4301351702	19315	Indian	Indian	OW	P
7-30-46 DLB	30	040S	060W	4301351703	18997	Fee	Indian	OW	P
3-13D-46 BTR	13	040S	060W	4301351718	18881	Indian	Indian	OW	P
2-13D-46 BTR	13	040S	060W	4301351719	18885	Indian	Indian	OW	P
12-12D-46 BTR	12	040S	060W	4301351720	18867	Indian	Indian	OW	P
10-12D-46 BTR	12	040S	060W	4301351721	18856	Indian	Indian	OW	P
11-11D-47 BTR	11	040S	070W	4301352091	19633	Fee	Fee	OW	P
7-12D-47 BTR	12	040S	070W	4301352094	19600	Indian	Fee	OW	P
5-12D-47 BTR	12	040S	070W	4301352095	19634	Indian	Fee	OW	P
14-33D-35 BTR	33	030S	050W	4301352162	19450	Indian	Fee	OW	P
16-33D-35 BTR	33	030S	050W	4301352163	19451	Indian	Fee	OW	P
14-22-46 DLB	22	040S	060W	4301333660	17604	Indian	Indian	D	PA
13H-31-36 BTR	31	030S	060W	4301350465	18485	Indian	Fee	OW	PA
16X-23D-36 BTR	23	030S	060W	4301350623	18007	Indian	State	OW	PA
8-6-45 BTR	6	040S	050W	4301350900	18561	Indian	Indian	OW	PA
13-13-36 BTR	13	030S	060W	4301350919	18364	Indian	Fee	OW	PA
7-28-46 DLB	28	040S	060W	4301333569	16460	Indian	Indian	OW	S
5-21-36 BTR	21	030S	060W	4301333641	16674	Indian	Fee	GW	S
13-26-36 BTR	26	030S	060W	4301333980	17569	Indian	Fee	OW	S
14-1-46 BTR	1	040S	060W	4301334113	18516	Indian	Indian	OW	S
16-21-36 BTR	21	030S	060W	4301334130	17721	Indian	Fee	OW	S
14-21-36 BTR	21	030S	060W	4301334131	18006	Indian	Fee	OW	S
7-16-36 BTR	16	030S	060W	4301334133	17834	Indian	Fee	OW	S
1-30-36 BTR	30	030S	060W	4301334134	17905	Indian	Fee	OW	S
16-30-36 BTR	30	030S	060W	4301334135	18005	Indian	Fee	OW	S
3-23-36 BTR	23	030S	060W	4301334137	17860	Indian	Fee	OW	S
16-16-36 BTR	16	030S	060W	4301334138	17666	Indian	Fee	OW	S

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

4-26-36 BTR	26	030S	060W	4301334139	17620	Fee	Fee	OW	S
9-11-36 BTR	11	030S	060W	4301334276	17451	Indian	Fee	OW	S
3-36-36 BTR	36	030S	060W	4301350398	17955	Indian	Fee	OW	S
7-10-36 BTR	10	030S	060W	4301350437	18052	Indian	Fee	OW	S
16-12D-46 BTR	12	040S	060W	4301350467	18051	Indian	Indian	OW	S
13H-13-46 BTR	13	040S	060W	4301350468	18208	Indian	Indian	OW	S
13-12-46 BTR	12	040S	060W	4301350469	18233	Indian	Indian	OW	S
14-8D-36 BTR	8	030S	060W	4301350612	18163	Indian	Fee	OW	S
14-7D-36 BTR	7	030S	060W	4301350613	18330	Indian	Fee	OW	S
16-9-36 BTR	9	030S	060W	4301350645	18078	Indian	Fee	OW	S
7-27-37 BTR	27	030S	070W	4301350647	18090	Indian	Fee	OW	S
16-12D-37 BTR	12	030S	070W	4301350785	18446	Indian	Fee	OW	S
14-21D-37 BTR	21	030S	070W	4301350859	18548	Indian	Fee	OW	S
10-18D-36 BTR	18	030S	060W	4301350915	18884	Indian	Fee	OW	S
5-27D-36	27	030S	060W	4301350917	18482	Indian	State	OW	S
10-36D-36 BTR	36	030S	060W	4301351005	18523	Indian	Fee	OW	S
14-6D-45 BTR	6	040S	050W	4301351158	18967	Indian	Indian	OW	S
5H-1-46 BTR UTELAND BUTTE	6	040S	050W	4301351215	18728	Indian	Indian	OW	S
5H-1-46 BTR WASATCH	6	040S	050W	4301351216	18727	Indian	Indian	OW	S
1-25D-36 BTR	25	030S	060W	4301351294	18798	Indian	Fee	OW	S
5-5D-35 BTR	5	030S	050W	4301351605	19055	Indian	Fee	OW	S
16-23-36 BTR	23	030S	060W	4301333971	17182	Indian	Fee	OW	TA
LC TRIBAL 14-23D-47	23	040S	070W	4301334022	18616	Indian	Indian	OW	TA
5-32D-36 BTR	32	030S	060W	4301350756	18328	Indian	Fee	OW	TA



October 20, 2016

Re: Bill Barrett Corporation Transfer to New Operator

Dear Ms. Medina:

Attached please find the change of operation Form 9, Form 5's and Request to Transfer APD form changing the operator from Bill Barrett Corporation to RIG II, LLC, effective 11/1/2016. Badlands Energy – Utah, LLC will be a sub-operator.

**New Operator Contact information:**

RIG II, LLC  
1582 West 2600 South  
Woods Cross, Utah 84087-0298  
Telephone: (801) 683-4245  
Fax: (801) 298-9889

Upon reviewing the attached, please contact myself with any questions at 303-312-8115.

Sincerely,

Bill Barrett Corporation

Brady Riley  
Permit Analyst

**RECEIVED**  
OCT 21 2016  
DIV. OF OIL, GAS & MINING

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER:  
(see attached well list)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

N/A

7. UNIT or CA AGREEMENT NAME:

8. WELL NAME and NUMBER:  
(see attached well list)

9. API NUMBER:

10. FIELD AND POOL, OR WILDCAT:

1. TYPE OF WELL

OIL WELL ☒

GAS WELL ☐

OTHER

2. NAME OF OPERATOR:

RIG II, LLC

N4055

3. ADDRESS OF OPERATOR:

1582 West 2600 South

CITY Wood Cross

STATE UT

ZIP 84087

PHONE NUMBER:

(801) 683-4245

4. LOCATION OF WELL

FOOTAGES AT SURFACE: (see attached well list)

COUNTY:

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

STATE:

UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

TYPE OF ACTION

☒ NOTICE OF INTENT  
(Submit in Duplicate)

Approximate date work will start:

11/1/2016

☐ SUBSEQUENT REPORT  
(Submit Original Form Only)

Date of work completion:

☐ ACIDIZE

☐ ALTER CASING

☐ CASING REPAIR

☐ CHANGE TO PREVIOUS PLANS

☐ CHANGE TUBING

☐ CHANGE WELL NAME

☐ CHANGE WELL STATUS

☐ COMINGLE PRODUCING FORMATIONS

☐ CONVERT WELL TYPE

☐ DEEPEN

☐ FRACTURE TREAT

☐ NEW CONSTRUCTION

☒ OPERATOR CHANGE

☐ PLUG AND ABANDON

☐ PLUG BACK

☐ PRODUCTION (START/RESUME)

☐ RECLAMATION OF WELL SITE

☐ RECOMPLETE - DIFFERENT FORMATION

☐ REPERFORATE CURRENT FORMATION

☐ SIDETRACK TO REPAIR WELL

☐ TEMPORARILY ABANDON

☐ TUBING REPAIR

☐ VENT OR FLARE

☐ WATER DISPOSAL

☐ WATER SHUT-OFF

☐ OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

RIG II, LLC IS SUBMITTING THIS SUNDRY AS NOTIFICATION THAT THE WELLS LISTED ON THE ATTACHED LIST HAVE BEEN SOLD TO RIG II, LLC BY BILL BARRETT CORPORATION EFFECTIVE 11/1/2016. PLEASE REFER ALL FUTURE CORRESPONDENCE TO THE ADDRESS BELOW.

RIG II, LLC

1582 West 2600 South

Woods Cross, Utah 84087-0298

801-683-4245

(STATE/FEE BOND # 9219529/ BLM BOND # UTB000712/ BIA BOND # LPM9224670)

BILL BARRETT CORPORATION N4165

Duane Zavala

NAME (PLEASE PRINT)

Duane Zavala

SIGNATURE

Senior Vice President -

EH&S, Government and Regulatory Affairs

RIG II, LLC

Jesse McSwain

NAME (PLEASE PRINT)

Jesse McSwain

SIGNATURE

Manager

NAME (PLEASE PRINT) Jesse McSwain

TITLE Manager

SIGNATURE

Jesse McSwain

DATE

10/20/16

(This space for State use only)

APPROVED

NOV 07 2016



**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

**Request to Transfer Application or Permit to Drill**

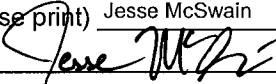
(This form should accompany a Sundry Notice, Form 9, requesting APD transfer)

<b>Well name:</b>	(See attached list)
<b>API number:</b>	
<b>Location:</b>	Qtr-Qtr:                      Section:                      Township:                      Range:
<b>Company that filed original application:</b>	Bill Barrett Corporation
<b>Date original permit was issued:</b>	
<b>Company that permit was issued to:</b>	Bill Barrett Corporation

Check one	Desired Action:
	<b>Transfer pending (unapproved) Application for Permit to Drill to new operator</b>
	The undersigned as owner with legal rights to drill on the property, hereby verifies that the information as submitted in the pending Application for Permit to Drill, remains valid and does not require revision. The new owner of the application accepts and agrees to the information and procedures as stated in the application.
<input checked="" type="checkbox"/>	<b>Transfer approved Application for Permit to Drill to new operator</b>
	The undersigned as owner with legal rights to drill on the property as permitted, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.	Yes	No
If located on private land, has the ownership changed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> If so, has the surface agreement been updated?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Have there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Have there been any changes to the access route including ownership or right-of-way, which could affect the proposed location?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Has the approved source of water for drilling changed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Is bonding still in place, which covers this proposed well? Bond No. <small>9219529-LUDGM / UTB000712-BLM / LPM9224670-BIA</small>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Any desired or necessary changes to either a pending or approved Application for Permit to Drill that is being transferred, should be filed on a Sundry Notice, Form 9, or amended Application for Permit to Drill, Form 3, as appropriate, with necessary supporting information as required.

Name (please print) Jesse McSwain Title Manager  
Signature  Date 10/20/16  
Representing (company name) RIG II, LLC

The person signing this form must have legal authority to represent the company or individual(s) to be listed as the new operator on the Application for Permit to Drill.

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

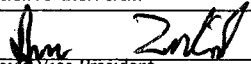
UIC FORM 5

TRANSFER OF AUTHORITY TO INJECT

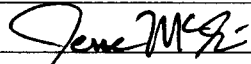
Well Name and Number 6-32-36 BTR SWD	API Number 4301350921
Location of Well Footage : 1628 FNL 1553 FWL County : DUCHENSE QQ, Section, Township, Range: SENW 32 3S 6W State : UTAH	Field or Unit Name CEDAR RIM Lease Designation and Number 2OG0005608

EFFECTIVE DATE OF TRANSFER: 11/1/2016

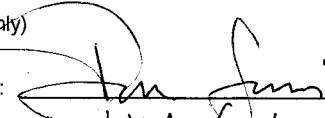
CURRENT OPERATOR

Company: BILL BARRETT CORPORATION	Name: Duane Zavadii
Address: 1099 18th Street Ste 2300	Signature: 
city DENVER state CO zip 80202	Senior Vice President -
Phone: (303) 293-9100	Title: EH&S, Government and Regulatory Affairs
Comments:	Date: 10/20/16

NEW OPERATOR

Company: RIG II, LLC	Name: Jesse McSwain
Address: 1582 West 2600 South	Signature: 
city Wood Cross state UT zip 84087	Title: Manager
Phone: (801) 683-4245	Date: 10/20/16
Comments:	

(This space for State use only)

Transfer approved by:   
Title: UIC Geologist

Approval Date: 11/3/16

Comments:

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

UIC FORM 5

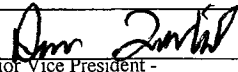
TRANSFER OF AUTHORITY TO INJECT

Well Name and Number 16-6D-46 BTR SWD	API Number 4301350781
Location of Well Footage : 0200 FSL 0099 FEL County : DUCHESNE QQ, Section, Township, Range: SESE 6 4S 6W State : UTAH	Field or Unit Name ALTAMONT Lease Designation and Number 2OG0005608

EFFECTIVE DATE OF TRANSFER: 11/1/2016

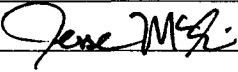
CURRENT OPERATOR

Company: BILL BARRETT CORPORATION  
Address: 1099 18th Street Ste 2300  
city DENVER state CO zip 80202  
Phone: (303) 293-9100  
Comments:


Name: Duane Zavadii  
Signature:   
Senior Vice President -  
Title: EH&S, Government and Regulatory Affairs  
Date: 10/20/16

NEW OPERATOR

Company: RIG II, LLC  
Address: 1582 West 2600 South  
city Wood Cross state UT zip 84087  
Phone: (801) 683-4245  
Comments:

Name: Jesse McSwain  
Signature:   
Title: Manager  
Date: 10/20/16

(This space for State use only)

Transfer approved by:   
Title: VIC

Approval Date: 11/3/16

Comments:

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

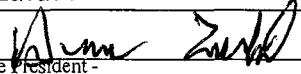
UIC FORM 5

**TRANSFER OF AUTHORITY TO INJECT**

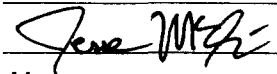
Well Name and Number <b>SWD 9-36 BTR</b>	API Number <b>4301350646</b>
Location of Well  Footage : <b>0539 FSL 0704 FEL</b>  County : <b>DUCHESNE</b>  QQ, Section, Township, Range: <b>SESE 9 3S 6W</b>  State : <b>UTAH</b>	Field or Unit Name <b>CEDAR RIM</b>  Lease Designation and Number <b>2OG0005608</b>

**EFFECTIVE DATE OF TRANSFER:** 11/1/2016

**CURRENT OPERATOR**

Company: <u>BILL BARRETT CORPORATION</u>	Name: <u>Duane Zavadi</u>
Address: <u>1099 18th Street Ste 2300</u>	Signature: <u></u>
city <u>DENVER</u> state <u>CO</u> zip <u>80202</u>	Title: <u>Senior Vice President - EH&amp;S, Government and Regulatory Affairs</u>
Phone: <u>(303) 293-9100</u>	Date: <u>10/20/16</u>
Comments:	

**NEW OPERATOR**

Company: <u>RIG II, LLC</u>	Name: <u>Jesse McSwain</u>
Address: <u>1582 West 2600 South</u>	Signature: <u></u>
city <u>Wood Cross</u> state <u>UT</u> zip <u>84087</u>	Title: <u>Manager</u>
Phone: <u>(801) 683-4245</u>	Date: <u>10/20/16</u>
Comments:	

(This space for State use only)

Transfer approved by: \_\_\_\_\_ Approval Date: \_\_\_\_\_

Title: \_\_\_\_\_

Comments:

*This well was approved by USEPA.  
EPA approval will be required.*